poliblend.it

poliblend™ by Ascend

ASCEND PERFORMANCE MATERIALS

made in Italy

PRODUCT LINE

ENGLISH

COMPANY profile

After twenty years of continuous growth as a family-owned company, since September 1st, 2020 Poliblend has become an integral part of Ascend Performance Materials, the most important player in the world for the production of polyamide 66 and the synthesis of chemical intermediates.

Ascend and Poliblend, two complementary realities that share the common values of continuous expansion and development of a wide range of materials to meet the increasing needs of the plastics market. A look at the needs of the planet puts the development of “Green” products at the center of our projects.

Among Poliblend’s objectives, the growth in terms of volumes is certainly important but, above all, the constant and continuous improvement of Quality remains a priority, focusing on what are the company’s outstanding skills and strengths:

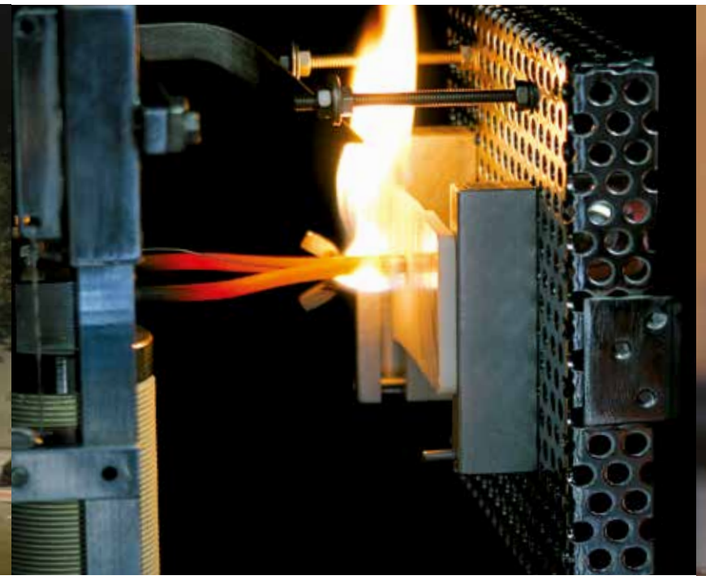
- **Manufacturing of a wide range of techno-polymers, unfilled or modified, mainly polyamides**
- **Availability, flexibility & fast service**
- **Qualified technical support pre- & post-sales, from the design to the manufacturing of the final product**
- **Research & Development of new compounds, to satisfy the needs of the most demanding clients**
- **Certified Quality Management System (ISO) and Product Certifications (UL and others)**

Laboratory and QUALITY

For the fine-tuning of the products and for the Quality Control, Poliblend operates in its own laboratories, provided with qualified equipment and dedicated to the control of raw materials and end-products, which allow us to perform:

- **DSC, TGA, FT-IR and XRF analyses**
- **Physical and rheological tests**
- **Mechanical, thermal and electrical characterizations**
- **Evaluation of fire behavior (UL, GWT)**
- **Accelerated aging tests (Temperature, humidity, UV)**
- **Colour check**

The certification of its Quality System according to ISO 9001 for the Development, Manufacturing and Sale of techno-polymers, in combination with the IATF 16949 standard (Automotive sector) and the ISO 14001 for the Environment, qualify the entire Poliblend structure and its products range as one of the most competitive player in the plastic market worldwide.



Our **CERTIFICATIONS**

UNI EN ISO 14001:2015	Certification of the Environmental Management System
UNI EN ISO 9001:2015	Certification of the Quality Management System
IATF 16949:2016	Certification of the Quality Management System for the Products developed for the Automotive sector
WRAS APPROVAL	Range of PA66-based compounds with certification of material conformity for contact with drinking water (cold/hot)
WRAS APPROVAL NUMBER 2001539	Certification of Conformity of the Material to the contact with drinkable water for POLIPOM C NATURAL WR
UL YELLOW CARD	FILE QMFZ2.E249139
PSV CERTIFICATE N° 018/2019	“Plastica seconda vita” certificate for materials obtained from waste

Our **CERTIFICATIONS**

Plastica **S**econda **V**ita

From Poliblend’s experience in recycled raw materials, we developed a wide range of compounds (PA6 and PA66, from unfilled up to 50% glass fiber reinforced) obtained by the use of blends of recycled materials by sorting or other post-consumer or pre-consumer waste or MPS (Secondary Raw Material).

Certificato n° 018/2019

Scopo	**Materiali ottenuti mediante estrusione realizzati utilizzando dal 30 al 100% di polimeri derivanti da raccolta differenziata e/o scarto industriale**
Scope	***Materials obtained by (extrusion) the use of blends of recycled materials by sorting or other post consume or pre consume waste in the minimum quantity of 30% up to 100%***
Gamma di prodotti ***Range of products***	**Vedere allegato** ***See annex***
Nome commerciale ***Trade name***	**Vedere allegato** ***See annex***
Produttore ***Manufacturer***	**POLIBLEND S.p.a.** ***POLIBLEND S.p.a.***
Sede legale ***Head Office***	**Via Garibaldi, 43 - 21047 Saronno (VA)** ***Via Garibaldi, 43 - 21047 Saronno (VA)***
Sito produttivo ***Production site***	**Via Piccinelli, 12 – 21076 Mozzate (CO)** ***Via Piccinelli, 12 – 21076 Mozzate (CO)***

KIWA CERMET ITALIA S.p.A certifica che i prodotti sopra elencati ottenuti dall’impiego di materiali da riciclo sono conformi ai requisiti specificati nel Regolamento di certificazione "Plastica Seconda Vita".
Il produttore, sottoposto a sorveglianza continua da parte di KIWA CERMET ITALIA S.p., è quindi autorizzato ad apporre sui prodotti certificati il marchio "Plastica Seconda Vita" PSV mixeco con numero distintivo **018** ed utilizzarlo in conformità alle prescrizioni del Regolamento per l’uso del marchio PSV.
Il presente certificato di conformità è valido, salvo modifica, sospensione o revoca, fino al ***20/12/2025***

KIWA CERMET ITALIA S.p.A certifies that the above listed products comply with the requirements specified in the “Rules for the PSV certification”.
The manufacturer, which is subjected to continuous surveillance by KIWA CERMET ITALIA S.p.A is so entitled to put on the certified products the “Plastica Seconda Vita ” PSV mixeco with the distinctive number **018** and to use it in compliance with the “Rules for the use of PSV mark” .
This certificate of conformity is valid, unless modification, suspension or revocation, until ***20/12/2025***

Prima emissione **20/12/2019**
First issue

Emissione corrente **22/12/2022**
Current issue

Scadenza **20/12/2025**
Expiry date

Kiwa Cermet Italia S.p.A
Via Cadriano, 23 – 40057 Granarolo dell’Emilia (BO)
Tel. 051 459 3111
www.kiwacermet.it

Kiwa Cermet Italia S.p.A
Presidente / President
Giampiero Belcredi
Firmato digitalmente da: BELCREDI GIAMPIERO
Data: 22/12/2022 14:48:40

PRD N° 050B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Plastica Seconda Vita è un marchio registrato di proprietà di IPPR – Istituto per la Promozione della Plastiche da Riciclo
IPPR - Via San Vittore, 36 - 20123 Milano www.ippr.it

Our **PRODUCTS**

POLIMID A
Range of PA6.6 products.
Ideal for manufacturing products where high rigidity, surface hardness and very high operating temperatures are needed. Mainly used in automotive/electrical applications, filled versions (glass fiber or bead, mineral, carbon fiber), improved impact, flame retardant (halogenated and not halogenated) and heat stabilized are available.

POLIMID B
Range of PA6 products.
With very good mechanical characteristics in terms of flexibility/tenacity ratio these products can be easily processed. Filled versions (glass fiber or bead, mineral, carbon fiber), improved impact, flame retardant (halogenated and not halogenated) and heat stabilized are available.

POLIMID C
Range of PA6.6/6 copolymer products.
Copolymer PA6.6/6 shows physical, mechanical and thermal characteristics halfway between polyamide 6 and 6.6. Mainly utilized in electrical applications but also used wherever a lower crystallinity grade compared to PA 6.6 is needed.

SECOMID A – SECOMID B
Range of PA6 or PA6.6 compounds, manufactured starting from near prime and/or off-grade materials. They offer a very good compromise between mechanical characteristics (slightly lower than the POLIMID range) and cost, keeping the physical characteristics of the main material. Available in the same versions of POLIMID A and POLIMID B.

POLITER B - POLITER A
Range of polyester products, where very high thermal stability is needed.
The low moisture absorption gives PBT or PET products very high dimensional stability, together with good electrical characteristics and a good chemical resistance. Filled versions (fibers or mineral fillers) allow the achievement of higher levels of mechanical characteristics. Flame retardants versions give a completely self-extinguishing resin.

POLIPOM
Range of POM products.
Available in homopolymer and copolymer versions. Recommended for the applications where very high resistance to abrasion and to fatigue cycles are required. Very good resistance to oils, acids and in environments where oxidant agents are present.

FR – FLAME RETARDANT PRODUCTS
Range of compounds which include special additives able to improve the self-extinguish capability of the polymer when exposed to a burning flame. These products are mostly used for electrical and electronical applications, in building constructions and transportation systems. The additives used are based on red phosphorous (F), halogens (A) and halogen free. (HF).

LUB – LUBRICATED PRODUCTS
Range of compounds specifically developed for all those applications where improved resistance to wear and abrasion is required.
Recommended for those products where metal-plastic or plastic-plastic low friction coefficient is required together with the mechanical characteristics typical of the main materials used.

STAT – ELECTRICALLY CONDUCTIVE PRODUCTS
Electrically conductive range of compounds are produced with additives that allow the reduction of the intrinsic insulating characteristic typical of the plastic materials. Such compounds find application where, for instance, the end products must prevent the accumulation of electrostatic charges.

POLIMID GREEN - PRODUCTS DERIVED FROM WASTE RECYCLING
Range of polyamides 6 and 6.6 made by compounding polymers derived from post-industrial or post-consumer regrind, with a minimum 30% waste content. These materials reduce the environmental impact of plastics while maintaining good mechanical properties.

STABILIZATIONS - ADDITIVATIONS

Our compounds are available with the following stabilizations / additivations, to meet specific technical requirements

- **KW, KW2: ORGANIC HEAT STABILIZATION**
- **KW3: ORGANIC STABILIZATION FOR COLOUR AGING STABILITY**
- **K1: INORGANIC HEAT STABILIZATION**
- **KWG: GLYCOL AND HOT OIL STABILIZATION**
- **HW: HYDROLYSIS STABILIZATION**
- **HWG: HYDROLYSIS STABILIZATION, IMPROVED RESISTANCE TO GLYCOL**
- **WR: PEROXIDE STABILIZATION (WATER CONTACT)**
- **UV, UV1, UV2: UV STABILIZATION**
- **/F, /F1, /F2, /XF: ENHANCED NUCLEATION FOR FAST CYCLES**
- **/FP, /FST : COMBI-BATCH ADDITIVATION (NUCLEATION + FLOWABILITY IMPROVER)**
- **LU: LUBRICANT for EXTRUSION GRADE**
- **XLU: FLOW IMPROVER**
- **DX: IMPROVED RESISTANCE TO DETERGENT**
- **AM: ANTIBACTERIAL & ANTIMICROBIAL**
- **G/W: ADDITIVATION FOR HIGH THICKNESS PART (VACUOLES/MICROHOLES ELIMINATION)**

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UNFILLED

POLIMID B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	AV	AV /1	AV HF	34	36
			PA 6 STANDARD VISCOSITY	PA 6 ECONOMICAL VERSION	PA 6 HIGH FLUITIDY - FAST CYCLES	PA 6 3.4 VISCOSITY	PA 6 3.6 VISCOSITY
DENSITY	ISO 1183	g/cm³	1,14	1,14	1,14	1,14	1,14
MELTING POINT	DSC	°C	222	222	222	222	222
MOLD SHRINKAGE (average)	ISO 294-4	%	1,2 - 1,6	1,2 - 1,6	1,3 - 1,7	1,2 - 1,6	1,2 - 1,6
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,8 / 9,0	2,8 / 9,0	2,8 / 9,0	2,8 / 9,0	2,8 / 9,0
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	205	205	205	205	205
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	175	175	175	175	175
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	65	65	65	65	65
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	>165	> 165	>165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	80	80	80	80	80
MECHANICAL PROPERTIES							
TENSILE STRENGTH AT YIELD	ISO 527	MPa	85	80	80	85	85
TENSILE STRENGTH AT BREAK	ISO 527	MPa	-	-	-	-	-
TENSILE MODULUS	ISO 527	MPa	3000	2900	3000	3100	3100
TENSILE STRAIN AT YIELD	ISO 527	%	5	5	5	5	5
TENSILE STRAIN AT BREAK	ISO 527	%	30	30	30	40	40
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	6	5,5	6	6,5	6,5
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	NB	NB	NB	NB	NB
ELECTRICAL PROPERTIES & FLAME RETARDANCY							
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		V2 / V2 / V2	V2 / V2 / V2	V2 / V2 / V2	HB / HB / HB	HB / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	825	825	825	825	825
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	750	750	750	750	750
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS							
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90
MOLDING TEMPERATURE		°C	230 - 275	230 - 275	230 - 275	230 - 275	230 - 275
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

UNFILLED

POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	40	AV MD-FE HF	SG	SG /1	SG XLU/A	SG LDM	SG WR X328	SG HV	SG MD-FE HF
			PA 6 4.0 VISCOSITY	PA 6 HIGH FLUIDITY - METAL DETECTABLE	PA 66 STANDARD VISCOSITY	PA 66 ECONOMICAL VERSION	PA 66 STANDARD VISCOSITY - IMPROVED MOULDABILITY	PA 66 FAST CYCLES	PA 66 STANDARD VISCOSITY - WRAS CERTIFIED	PA 66 HIGH VISCOSITY	PA 66 HIGH FLUIDITY - METAL DETECTABLE
DENSITY	ISO 1183	g/cm³	1,14	1,21	1,14	1,14	1,14	1,14	1,14	1,14	1,23
MELTING POINT	DSC	°C	222	222	260	260	260	260	260	260	260
MOLD SHRINKAGE (average)	ISO 294-4	%	1,2 - 1,6	1,0 - 1,4	1,3 - 1,7	1,3 - 1,7	1,2 - 1,6	1,2 - 1,6	1,3 – 1,7	1,3 - 1,7	0,8 - 1,2
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,8 / 9,0	2,1 / 7,8	2,6 / 8,5	2,6 / 8,5	2,6 / 8,5	2,6 / 8,5	2,6 / 8,5	2,6 / 8,5	1,8 / 7,0
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	205	205	250	250	255	255	255	255	250
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	175	170	220	220	225	225	225	225	225
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	65	65	75	70	75	75	75	75	90
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	>165	>165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	80	80	90	85	90	90	90	90	95
MECHANICAL PROPERTIES											
TENSILE STRENGTH AT YIELD	ISO 527	MPa	85	55	85	80	85	85	85	90	60
TENSILE STRENGTH AT BREAK	ISO 527	MPa	-	-	-	-	-	-	-	-	-
TENSILE MODULUS	ISO 527	MPa	3200	3600	3100	3000	3300	3300	3100	3200	3800
TENSILE STRAIN AT YIELD	ISO 527	%	5	5	4,5	4,5	4	4	4,5	4	3,5
TENSILE STRAIN AT BREAK	ISO 527	%	40	15	30	30	25	25	30	35	10
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	7	7	5,5	5	4,5	4,5	5,5	6	6
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	NB	-	NB	NB	NB	NB	NB	NB	-
ELECTRICAL PROPERTIES & FLAME RETARDANCY											
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	-	600	600	600	600	600	600	-
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		HB / HB / HB	HB / HB / HB	V2 (1-1,6 mm)	V2 / V2 / V2	V2 / V2 / V2	V2 / V2 / V2	V2 / V2 / V2	V2 / V2 / V2	HB / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	825	650	960	900	960	960	960	850	650
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	750	-	725	775	825	725	825	700	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS											
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90
MOLDING TEMPERATURE		°C	230 - 275	230 - 275	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no break
UL Certification

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POLIMID B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	15 GB	15 GF	1515 GFB	30 GB	30 GF	30 GF KW	30 GF K1	40 CM KW	50 GF	50 GF K1	60 GF	60 GF HF XLU	60 GFS	65 GF
			PA 6 15% GLASS BEAD	PA 6 15% GLASS FIBER	PA 6 15% GLASS FIBER 15% GLASS BEAD	PA 6 30% GLASS BEAD	PA 6 30% GLASS FIBER	PA 6 30% GLASS FIBER - HEAT STABILIZED	PA 6 30% GLASS FIBER HIGH HEAT STABILIZATION	PA 6 40% MINERAL FILLED HEAT STABILIZED	PA 6 50% GLASS FIBER	PA 6 50% GLASS FIBER HIGH HEAT STABILIZATION	PA 6 60% GLASS FIBER	PA 6 60% GLASS FIBER IMPROVED MOULDABILITY HIGH FLUIDITY	PA 6 60% GLASS FIBER - IMPROVED DIMENSIONAL STABILITY	PA 6 65% GLASS FIBER
DENSITY	ISO 1183	g/cm³	1,24	1,24	1,36	1,36	1,36	1,36	1,36	1,47	1,57	1,57	1,68	1,68	1,68	1,77
MELTING POINT	DSC	°C	222	222	222	222	222	222	222	222	222	222	222	222	222	222
MOLD SHRINKAGE (average)	ISO 294-4	%	0,9 - 1,3	0,5 - 0,9	0,7 - 1,1	0,9 - 1,2	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,6 - 0,8	0,2 - 0,5	0,2 - 0,5	0,2 - 0,5	0,2 - 0,5	0,3 - 0,6	0,2 - 0,5
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,5 / 7,5	2,5 / 7,5	2,1 / 7,0	2,1 / 6,5	2,1 / 6,5	2,1 / 6,5	2,1 / 6,5	1,8 / 6,0	1,6 / 5,5	1,6 / 5,5	1,4 / 5,0	1,4 / 5,0	1,4 / 5,0	1,4 / 5,0
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	205	220	210	205	220	220	220	220	220	220	220	220	220	220
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	175	215	205	180	220	220	220	195	220	220	220	220	215	220
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	80	195	190	90	210	210	210	110	215	215	215	215	210	215
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	>165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	90	110	110	100	115	120	125	115	130	140	135	135	125	130
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	-	-	-	-	-	-	-	80	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	55	130	115	70	180	180	180	85	225	225	240	230	190	230
TENSILE MODULUS	ISO 527	MPa	3500	6000	6200	4500	9500	9500	9500	6500	16500	16500	20500	21000	15500	22000
TENSILE STRAIN AT YIELD	ISO 527	%	3,5	-	-	3,5	-	-	-	3,5	-	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	5,5	3,5	3,5	4,5	3	3	3	7,5	2,5	2,5	2	2	2,5	1,5
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	4	6	6,5	4	14,5	14,5	14,5	5,5	18	18	19	18	14	18
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	30	40	40	30	80	80	80	65	100	100	110	105	80	105
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	475	600	600	475	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95
MOLDING TEMPERATURE		°C	240 - 280	240 - 285	240 - 280	240 - 280	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no break
UL Certification

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REINFORCED & MODIFIED

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POLIMID B

POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	15 GF EM1	30 GF EM2	25 GF 30 BS EM	EM1	EM4	15 GB	15 GF	1515 GFB	30 GB	30 GF	30 GF HM KW2 X079	30 GF KW2 X080	30 GF K1	30 GF WR
			PA 6 15% GLASS FIBER - IMPACT RESISTANT	PA 6 30% GLASS FIBER - HIGH IMPACT RESISTANCE	PA 6 25% GLASS FIBER 30% MINERAL FILLER - IMPACT RESISTANT SOUNDPROOF	PA 6 IMPACT RESISTANT	PA 6 VERY HIGH IMPACT RESISTANCE	PA 66 15% GLASS BEAD	PA 66 15% GLASS FIBER	PA 66 15% GLASS FIBER 15% GLASS BEAD	PA 66 30% GLASS BEAD	PA 66 30% GLASS FIBER	PA 66 ECONOMICAL VERSION 30% GLASS FIBER - HEAT STABILIZED	PA 66 30% GLASS FIBER HEAT STABILIZED	PA 66 30% GLASS FIBER - HIGH HEAT STABILIZED	PA 66 30% GLASS FIBER - WRAS CERTIFIED
DENSITY	ISO 1183	g/cm³	1,22	1,30	1,67	1,12	1,06	1,23	1,24	1,35	1,35	1,36	1,36	1,36	1,36	1,36
MELTING POINT	DSC	°C	222	222	222	222	222	260	260	260	260	260	260	260	260	260
MOLD SHRINKAGE (average)	ISO 294-4	%	0,7 - 1,1	0,6 - 1,0	0,5 - 0,7	1,3 - 1,7	1,8 - 2,2	0,9 - 1,3	0,5 - 0,9	1,0 - 1,4	0,9 - 1,2	0,3 - 0,7	0,4 – 0,8	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,3 / 7,0	1,7 / 5,5	0,5 / 4,0	2,6 / 8,0	2,1 / 7,5	2,2 / 7	2,2 / 7	1,9 / 6,5	1,9 / 6,5	1,9 / 6,5	1,8 / 6,3	1,9 / 6,5	1,9 / 6,5	1,9 / 6,5
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	210	210	220	190	180	245	250	250	250	255	255	255	255	255
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	200	205	190	150	140	235	245	235	235	250	255	250	255	255
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	190	195	170	60	50	105	240	220	110	245	240	245	245	245
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	>165	>165	> 165	>165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	100	105	105	80	70	100	110	110	110	120	130	130	135	115
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	-	-	-	70	45	-	-	-	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	110	145	130	-	-	55	130	110	75	185	160	185	185	185
TENSILE MODULUS	ISO 527	MPa	5800	7600	9700	2700	1700	3700	6200	6400	4800	9800	8700	9800	9800	9800
TENSILE STRAIN AT YIELD	ISO 527	%	-	-	-	5,5	6,5	-	-	-	3,5	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	4,5	4	2,5	> 45	> 100	5	3	3,5	4,5	2,5	3	2,5	2,5	2,5
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	11,5	20	12	12	65	3,5	5,5	6	4	12,5	10	12,5	12,5	12
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	55	100	65	NB	NB	25	35	40	30	75	60	75	75	75
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	600	600	475	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	HB / HB / HB	HB / HB / HB	- / HB / HB	- / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115
MOLDING TEMPERATURE		°C	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no break
UL Certification

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REINFORCED & MODIFIED

REINFORCED & MODIFIED

POLIMID A

POLIMID B/T

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	30 GF HWG	40 CM KW	50 GF	50 GF WR	60 GF	15 GF EM1	15 GF EM2	30 GF EM1	30 GF EM2	EM1	EM2 K1 X037/B	EM4	35 GF	50 GF
			PA 66 30% GLASS FIBER - HYDROLISIS, GLYCOL & OIL STABILIZED	PA 66 40% MINERAL FILLED HEAT STABILIZED	PA 66 50% GLASS FIBER	PA 66 50% GLASS FIBER - CERTIFICATA WRAS	PA 66 60% GLASS FIBER	PA 66 15% GLASS FIBER IMPACT RESISTANT	PA 66 15% GLASS FIBER HIGH IMPACT RESISTANCE	PA 66 30% GLASS FIBER IMPACT RESISTANT	PA 66 30% GLASS FIBER HIGH IMPACT RESISTANCE	PA 66 IMPACT RESISTANT	PA 66 IMPACT RESISTANT - HIGH HEAT STABILIZED	PA 66 VERY HIGH IMPACT RESISTANCE	PA 6 35% GLASS FIBER - LOW WATER ABSORPTION	PA 6 50% GLASS FIBER - LOW WATER ABSORPTION
DENSITY	ISO 1183	g/cm³	1,36	1,47	1,57	1,57	1,68	1,22	1,19	1,33	1,30	1,12	1,10	1,06	1,37	1,52
MELTING POINT	DSC	°C	260	260	260	260	260	260	260	260	260	260	260	260	220	220
MOLD SHRINKAGE (average)	ISO 294-4	%	0,3 - 0,7	0,7 - 0,9	0,2 - 0,5	0,2 - 0,5	0,3 - 0,5	0,7 - 1,1	0,8 - 1,2	0,5 - 0,9	0,7 - 1,0	1,4 - 1,8	1,6 – 2,0	1,7 - 2,1	0,3 - 0,8	0,2 - 0,7
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	1,7 / 6,0	1,5 / 5,5	1,2 / 4,0	1,2 / 4,0	1,1 / 3,8	1,8 / 6,5	1,7 / 6,2	1,5 / 5,5	1,0 / 5,0	2,4 / 7,5	2,3	2,0 / 6,5	1,5 / 4,5	1,2 / 3,6
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	255	240	255	255	255	250	245	250	245	245	240	230	220	220
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	250	230	260	260	260	250	245	245	240	210	205	155	220	215
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	250	160	255	255	255	235	230	240	245	70	70	60	210	210
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	140	110	135	135	135	100	95	115	110	85	120	75	110	120
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	-	-	-	-	-	-	-	-	-	70	55	45	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	185	85	230	230	235	120	105	150	140	-	-	-	170	200
TENSILE MODULUS	ISO 527	MPa	9800	6700	17000	17000	21000	5900	4800	8500	7800	2800	2400	1900	9500	15000
TENSILE STRAIN AT YIELD	ISO 527	%	-	-	-	-	-	-	-	-	-	5	7	6	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	2,5	5	2	2	2	4,5	5,5	3,5	4	> 45	> 60	> 100	3	2
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	12,5	5,5	16	16	16,5	11	17	15	20	12	18	65	14	15
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	75	65	95	95	105	50	60	75	95	NB	NB	NB	75	90
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	475	600	600	550	600	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	HB / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	700	650	700	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	90 - 115	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95
MOLDING TEMPERATURE		°C	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	260 - 295	240 - 285	240 - 285
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
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UL Certification

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			SECOMID B					SECOMID A		POLIPOM							
			BLACK FL	EM1	30 GF	BLACK XAP	30 GF BLACK	C 150 EM3	C WR	C 20	C 100	C 250	C 100 25 GF	C 100 30 GB	C 100 30 GF	C 100 1515 GFB
			PA 6 NEAR TO PRIME	PA 6 NEAR TO PRIME IMPACT RESISTANT	PA 6 NEAR TO PRIME 30% GLASS FIBER	PA 66 NEAR TO PRIME	PA 66 NEAR TO PRIME 30% GLASS FIBER	POM COPOLYMER - IMPACT RESISTANT	POM COPOLYMER - WRAS CERTIFIED	POM COPOLYMER MFI 2	POM COPOLYMER MFI 9	POM COPOLYMER MFI 27	POM COPOLYMER 25% GLASS FIBER	POM COPOLYMER 30% GLASS BEADS	POM COPOLYMER 30% GLASS FIBER	POM COPOLYMER 15% GLASS FIBER 15% GLASS BEADS
PHYSICAL AND THERMAL PROPERTIES	**METHOD**	**UNITS**														
DENSITY	ISO 1183	g/cm³	1,14	1,12	1,36	1,14	1,36	1,38	1,42	1,42	1,42	1,42	1,59	1,63	1,63	1,63
MELTING POINT	DSC	°C	222	222	222	260	260	166	166	166	166	166	166	166	166	166
MOLD SHRINKAGE (average)	ISO 294-4	%	1,4 - 1,8	1,5 - 2,0	0,3 - 0,7	1,2 - 1,7	0,4 - 0,8	1,5 - 1,9	1,8 - 2,2	1,8 - 2,2	1,8 - 2,2	1,8 - 2,2	0,8 - 1,1	1,2 - 1,5	0,7 - 1,0	0,9 - 1,2
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,8 / 8,5	2,6 / 8,0	2,1 / 6,5	2,6 / 8,5	1,7 / 6,0	0,25 / 0,9	0,2 / 0,8	0,2 / 0,8	0,2 / 0,8	0,2 / 0,8	0,2 / 0,7	0,2 / 0,7	0,2 / 0,7	0,2 / 0,7
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	205	190	220	250	250	160	160	160	160	160	165	165	165	165
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	170	145	215	215	245	160	160	160	160	160	160	160	165	160
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	60	55	205	75	235	100	100	100	100	100	150	110	155	140
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	-	-	-	-	-	-	-	-	-
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	80	80	105	85	110	80	80	80	80	80	85	85	90	85
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	70	65	-	80	-	45	60	60	60	60	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	-	-	155	-	150	-	-	-	-	-	150	40	160	110
TENSILE MODULUS	ISO 527	MPa	2750	2600	8600	3000	8900	2000	2900	2900	2900	2900	8800	3700	9500	6500
TENSILE STRAIN AT YIELD	ISO 527	%	4,5	5,5	-	3,5	-	12	9	10	10	8	-	-	-	
TENSILE STRAIN AT BREAK	ISO 527	%	25	> 30	3	30	2,5	50	30	30	30	25	3	4	2	3,5
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	5	10	10	5	10	12	6,5	11	9	7,5	7	3	8	5,5
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	NB	NB	65	NB	60	NB	NB	NB	NB	NB	25	20	30	25
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	575	600	575	600	575	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		HB / HB / HB	- / HB / HB	- / HB / HB	-	- / HB / HB	HB / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	HB / HB / HB	- / HB / HB	- / HB / HB	HB / HB / HB	HB / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	825	650	650	800	650	650	650	650	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	750	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	-	-	-	-	-	-	-	-	-
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80
MOLDING TEMPERATURE		°C	230 - 275	230 - 275	230 - 275	260 - 295	260 - 295	180 - 210	180 - 210	180 - 210	180 - 210	180 - 210	180 - 210	180 - 210	180 - 210	180 - 210
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	50 - 80	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
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POLITER B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	HV	MV	HF	V0A	30 GB	30 GF	30 GF V0A	30 GF V0 HFR KW	30 GF HW	30 GF EM1	40 GB	50 GF	EM1	EM4
			PBT NATURAL HIGH VISCOSITY	PBT NATURAL MEDIUM VISCOSITY	PBT NATURAL HIGH FLUIDITY	PBT HALOGENATED FLAME RETARDANT	PBT 30% GLASS BEADS	PBT 30% GLASS FIBER	PBT 30% GLASS FIBER - HALOGENATED FLAME RETARDANT (PBB/PBDE FREE)	PBT 30% GLASS FIBER - FLAMERETARDANT HALOGEN AND RED PHOSPHORUS FREE - HEAT STABILIZED	30% GLASS FIBER - HYDROLYSIS STABILIZED	PBT 30% GLASS FIBER - IMPACT RESISTANCE	PBT 40% GLASS BEADS	PBT 50% GLASS FIBER	PBT IMPACT RESISTANT	PBT HIGH IMPACT RESISTANCE
DENSITY	ISO 1183	g/cm³	1,31	1,31	1,31	1,44	1,53	1,53	1,59	1,58	1,53	1,48	1,62	1,75	1,29	1,21
MELTING POINT	DSC	°C	225	225	225	225	225	225	225	225	225	225	225	225	225	225
MOLD SHRINKAGE (average)	ISO 294-4	%	1,6 - 2,0	1,6 - 2,0	1,6 - 2,0	1,6 - 2,0	1,0 - 1,4	0,4 - 0,7	0,5 - 0,8	0,5 - 0,9	0,3 - 0,8	0,5 - 0,9	0,8 - 1,1	0,2 - 0,8	1,7 - 2,1	2,0 - 2,4
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	0,2 / 0,5	0,2 / 0,5	0,2 / 0,5	0,08 / 0,3	0,15 / 0,4	0,15 / 0,4	0,05 / 0,3	0,2 / 0,5	0,05 / 0,3	0,15 / 0,4	0,15 / 0,4	0,2 / 0,5	0,15 / 0,5	0,15 / 0,5
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	180	180	180	170	200	220	215	210	220	210	205	220	175	165
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	165	165	165	160	190	220	220	215	220	215	195	225	165	115
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	60	60	60	65	90	210	205	205	210	190	95	215	55	55
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	120	120	120	120	130	130	130	135	130	130	130	130	110	100
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	60	60	60	55	-	-	-	-	-	-	-	-	50	45
TENSILE STRENGTH AT BREAK	ISO 527	MPa	-	-	-	-	70	130	110	120	130	110	75	160	45	40
TENSILE MODULUS	ISO 527	MPa	2500	2500	2500	2800	4300	9500	9000	9200	9500	8500	5500	15000	2200	1800
TENSILE STRAIN AT YIELD	ISO 527	%	4	4	4	3	-	-	-	-	-	-	-	-	6	5
TENSILE STRAIN AT BREAK	ISO 527	%	55	55	55	20	5	2,5	2	2,5	2,5	4	4	1,5	> 60	> 80
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	5	5	5	4,5	4	9	7,5	8	9	11,5	5	10	10	45
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	NB	NB	NB	30	30	55	45	-	55	55	35	55	NB	NB
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	500	500	500	250	400	400	250	450	350	400	400	400	450	450
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		HB / HB / HB	HB / HB / HB	HB / HB / HB	V0 / V0 / V0	HB / HB / HB	HB / HB / HB	V0 / V0 / V0	V0 / V0 / V0	HB / HB / HB	HB / HB / HB	HB / HB / HB	HB / HB / HB	HB / HB / HB	HB / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	750	750	750	960	650	650	960	960	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	115 - 135	100 - 120	100 - 120
MOLDING TEMPERATURE		°C	235 - 280	235 - 280	235 - 280	235 - 280	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	240 - 285	235 - 275	235 - 275
MOLD TEMPERATURE		°C	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 100	70 - 90	70 - 90

Remarks:
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FLAME RETARDANT

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POLIMID B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	AV V0M	AV V0M X277	AV V0A	AV V2A GT96	AV V2A X366	20 GF V2M HF KW	25 GF V2M HF KW	25 GF V0A TR1	25 GF V0 HFR KW	30 GB V0 HFR KW	30 GF V0 HFR KW	30 GF V2M HF KW	30 GF V0A	40 GB V0A
			PA 6 FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE	PA 6 FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE IMPROVED MOULDABILITY	PA 6 FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)	PA 6 FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)	PA 6 FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)	PA 6 20% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HIGH FLUIDITY HEAT STABILIZED	PA 6 25% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HIGH FLUIDITY HEAT STABILIZED	PA 6 25% GLASS FIBER FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE) IMPROVED ELECTRICAL PROPERTIES	PA 6 25% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 6 30% GLASS BEADS FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HIGH FLUIDITY HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT WITH HALOGENS	PA 6 40% GLASS BEADS FLAME RETARDANT WITH HALOGENS
DENSITY	ISO 1183	g/cm³	1,16	1,16	1,36	1,28	1,28	1,32	1,36	1,56	1,37	1,41	1,41	1,41	1,60	1,64
MELTING POINT	DSC	°C	222	222	222	222	222	222	222	222	222	222	222	222	222	222
MOLD SHRINKAGE (average)	ISO 294-4	%	1,2 - 1,6	1,2 – 1,6	1,1 - 1,5	1,0 - 1,4	1,0 - 1,4	0,9 - 1,2	0,7 - 1,0	0,4 - 0,8	0,4 - 0,7	0,9 - 1,3	0,3 - 0,6	0,3 - 0,6	0,3 - 0,6	0,7 - 1,1
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,6 / 7,5	2,6 / 7,5	2,9 / 8,0	2,8 / 7,8	2,8 / 7,8	2,0 / 6,0	1,9 / 5,8	1,9 / 5,8	1,9 / 5,8	1,8 / 5,5	1,8 / 5,5	1,8 / 5,5	1,8 / 5,5	1,5 / 5,0
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	205	205	205	205	205	205	210	215	215	215	220	215	220	215
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	190	190	195	180	180	190	205	215	215	205	220	210	220	210
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	70	70	75	70	70	165	170	205	200	95	210	175	195	100
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	90	90	90	90	80	100	105	120	120	110	120	110	120	110
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	75	75	70	75	75	-	-	-	-	-	-	-	-	–
TENSILE STRENGTH AT BREAK	ISO 527	MPa	-	-	-	-	-	85	–	125	125	55	135	100	115	75
TENSILE MODULUS	ISO 527	MPa	3300	3400	3300	3200	3800	5600	6400	8900	9000	5000	10200	7000	10000	5500
TENSILE STRAIN AT YIELD	ISO 527	%	5	4,5	3	3	3	-	-	-	-	-	-	-	-	–
TENSILE STRAIN AT BREAK	ISO 527	%	10	10	6,5	6	6	3,5	3	2,5	2,5	4,5	2,5	3	2,5	3,5
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	4	4	6	4,5	4,5	3,5	4	7,5	8	4	9	4,5	8	5
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	> 60	> 60	45	55	55	30	35	40	45	25	60	40	55	30
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	275	400	400	550	550	400	600	600	600	550	350	350
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V2 / V2 / V2	V2 / V2 / V2	V2 / V2 / V2	V2 / V2 / V2	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V2 / V2 / V2	V0 / V0 / V0	V0 / V0 / V0
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	960	960	960	960	960	960	960	960	960	960	960	960	960	960
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	800	800	775	775	850	725	725	775	775	750	800	725	775	775
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100
MOLDING TEMPERATURE		°C	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 280	230 - 280	230 - 280	230 - 280	230 - 280	230 - 280	230 - 280	230 - 280	230 - 280
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70-90	70-90	70-90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no break
UL Certification

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FLAME RETARDANT

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POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	SG V0M	SG V0A	SG V0A X253	SG V2A X259	A 15 GF V0FK	25 GF V0F	25 GF V0FK	25 GF V0FK KW X025	25 GF V0A TR1	25 GF V0 HFR KW	30 GF V0 HFR KW	30 GF V0A	35 GF V0FK	50 GF V0FK KW
			PA 66 FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE	PA 66 FLAME RETARDANT WITH HALOGENS	PA 66 FLAME RETARDANT WITH HALOGENS	PA 66 FLAME RETARDANT WITH HALOGENS	PA 66 15% GLASS FIBER - FLAME RETARDANT WITH RED PHOSPHORUS - IMPROVED ELECTRICAL PROPERTIES	PA 66 25% GLASS FIBER - FLAME RETARDANT WITH RED PHOSPHORUS	PA 66 25% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES	PA 66 25% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES - HEAT STABILIZED	PA 66 25% GLASS FIBER FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE) IMPROVED ELECTRICAL PROPERTIES	PA 66 25% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 66 30% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 66 30% GLASS FIBER FLAME RETARDANT WITH HALOGENS	PA 66 35% GLASS FIBER - FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES	PA 66 50% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES HEAT STABILIZED
DENSITY	ISO 1183	g/cm³	1,16	1,36	1,36	1,33	1,30	1,34	1,34	1,34	1,56	1,37	1,41	1,60	1,45	1,57
MELTING POINT	DSC	°C	260	260	260	260	260	260	260	260	260	260	260	260	260	260
MOLD SHRINKAGE (average)	ISO 294-4	%	1,3 - 1,7	1,3 - 1,7	1,3 – 1,7	1,3 – 1,7	0,7 - 1,1	0,5 - 1,0	0,5 - 1,1	0,5 - 1,1	0,4 - 0,8	0,4 - 0,8	0,3 - 0,7	0,4 - 0,6	0,3 - 0,6	0,2 – 0,5
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,3 / 6,5	2,3 / 6,5	2,3 / 6,5	2,3 / 6,5	1,9 / 5,8	1,8 / 5,5	1,7 / 5,5	1,7 / 5,5	1,7 / 5,5	1,5 / 5,0	1,5 / 5,0	1,5 / 5,0	1,5 / 5,0	1,2 / 4,5
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	240	230	230	225	255	255	255	255	255	255	255	255	255	255
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	225	210	210	205	230	240	240	240	245	250	255	255	255	260
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	75	85	85	80	215	230	230	230	235	240	245	245	245	255
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	90	110	110	105	110	115	115	115	120	120	125	125	125	130
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	75	60	50	60	-	-	–	–	-	-	–	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	–	-	-	-	115	130	130	130	120	130	140	130	145	180
TENSILE MODULUS	ISO 527	MPa	3500	2900	2900	2750	6800	8500	8500	8500	9200	9200	10500	10200	9800	13500
TENSILE STRAIN AT YIELD	ISO 527	%	3,5	-	-	-	-	-	-	-	-	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	7	5,5	5,5	6	3	3	3	3	3,5	3	2	4	2	2,2
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	4	4,5	4,5	5	5,5	10	10,5	10,5	9,5	10	11	10,5	12	13,5
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	> 60	> 60	> 60	> 70	35	50	55	55	50	55	60	55	80	85
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	325	325	325	500	400	550	550	400	600	600	300	550	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E13	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		V0 / V0 / V0	- / V0 / V0	- / V0 / V0	V2 / V2 / V2	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0	V0 / V0 / V0
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	960	960	960	960	960	960	960	960	960	960	960	960	960	960
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	825	750	750	775	800	800	800	800	850	775	750	775	825	825
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100
MOLDING TEMPERATURE		°C	270 - 290	270 - 290	270 - 290	270 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
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POLIMID LUB B

POLIMID LUB A/B

POLIMID LUB A

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PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	AV Y10	AV Y30	30 GF Y10	30 GF TF3	20 FC TF3 XLU	SG Y10	SG Y30	SG TF4	SG TF4 SI KW2	30 GF Y10	30 GF TF4	50 GF Y10 KW2	1515 GFM Y10 KW	30 FC TF3
			PA 6 STANDARD VISCOSITY MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 STANDARD VISCOSITY MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 30% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 30% GLASS FIBER PTFE LUBRICATED	PA 6 / PA 66 20% CARBON FIBER PTFE LUBRICATED	PA 66 STANDARD VISCOSITY MOLYBDENUM DISULPHIDE LUBRICATED	PA 66 STANDARD VISCOSITY MOLYBDENUM DISULPHIDE LUBRICATED	PA 66 PTFE LUBRICATED	PA 66 PTFE AND SILICON LUBRICATED HEAT STABILIZED	PA 66 30% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED	PA 66 30% GLASS FIBER PTFE LUBRICATED	PA 66 50% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED HEAT STABILIZED	PA 66 15% GLASS FIBER 15% MINERAL FILLER - MOLYBDENUM DISULPHIDE LUBRICATED HEAT STABILIZED	PA 66 30% CARBON FIBER PTFE LUBRICATED
DENSITY	ISO 1183	g/cm³	1,15	1,17	1,37	1,49	1,34	1,15	1,17	1,26	1,27	1,37	1,53	1,59	1,37	1,38
MELTING POINT	DSC	°C	222	222	222	222	260	260	260	260	260	260	260	260	260	260
MOLD SHRINKAGE (average)	ISO 294-4	%	1,3 - 1,8	1,4 - 1,8	0,4 - 0,7	0,4 - 0,7	0,2 - 0,4	1,4 - 1,8	1,5 - 1,9	1,2 - 1,6	1,2 - 1,6	0,4 - 0,7	0,4 - 0,7	0,2 - 0,5	0,6 - 0,8	0,2 - 0,4
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,8 / 8,0	2,6 / 7,8	2,1 / 6,0	1,6 / 5,5	1,7 / 6,0	2,6 / 7,0	2,5 / 6,8	2,2 / 4,5	2,2 / 4,5	1,7 / 6,5	1,2 / 5,5	1,2 / 4,5	1,7 / 6,0	1,4 / 4,5
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	205	205	215	220	245	235	235	245	240	255	250	260	250	255
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	180	180	210	215	235	230	230	205	230	250	250	255	230	250
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	80	80	205	205	220	85	85	75	100	245	250	250	205	245
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	80	80	110	100	115	90	90	100	120	115	120	120	110	120
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	85	75	160	145	160	75	65	70	65	170	135	205	90	210
TENSILE MODULUS	ISO 527	MPa	3200	3400	9700	8900	13800	3300	3500	2900	2600	9500	8400	17500	6800	19500
TENSILE STRAIN AT YIELD	ISO 527	%	5	4	-	-	-	6	4	5	4,5	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	12	7	3	2,5	1,5	10	9	9	6	3	2,5	2	2,5	1,5
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	6	5	11	10	7	4,5	3,5	4	3,5	12	11	13	7	8
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	NB	NB	65	65	50	NB	NB	40	35	70	60	85	45	50
OTHER PROPERTIES & FLAME RETARDANCY																
COEFFICIENT OF FRICTION - STATIC	ASTM D 3702		0,29	0,25	0,39	0,33	0,33	0,29	0,25	0,26	0,22	0,45	0,31	0,47	0.56	0,26
COEFFICIENT OF FRICTION - DYNAMIC	ASTM D 3702		0,26	0,23	0,36	0,28	0,28	0,26	0,22	0,22	0,18	0,36	0,26	0,39	0,45	0,2
WEAR FACTOR	ASTM D 3702	mm³/N*m	7,2 E-6	7,0 E-6	3,4 E-6	2,5 E-6	2,5 E-6	7,0 E-6	6,8 E-6	6,2 E-7	5,5 E-7	3,0 E-6	7,0 E-7	2,1 E-6	3,6 E-6	1,5 E-6
VOLUME RESISTIVITY	IEC 60093	Ohm·cm	1 E14	1 E14	1 E14	1 E14	1 E3	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E2
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		-	-	-	-	-	-	-	-	-	-	-	-	-	-
GLOW WIRE IGNITION TEMPERATURE (GWFI / 2 mm)	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	650	650	650	650
BURNING RATE 350 X 100 X 1 mm	"FMVSS 302 ISO 3795"	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100
MOLDING TEMPERATURE		°C	230 - 250	230 - 250	240 - 270	240 - 280	250 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

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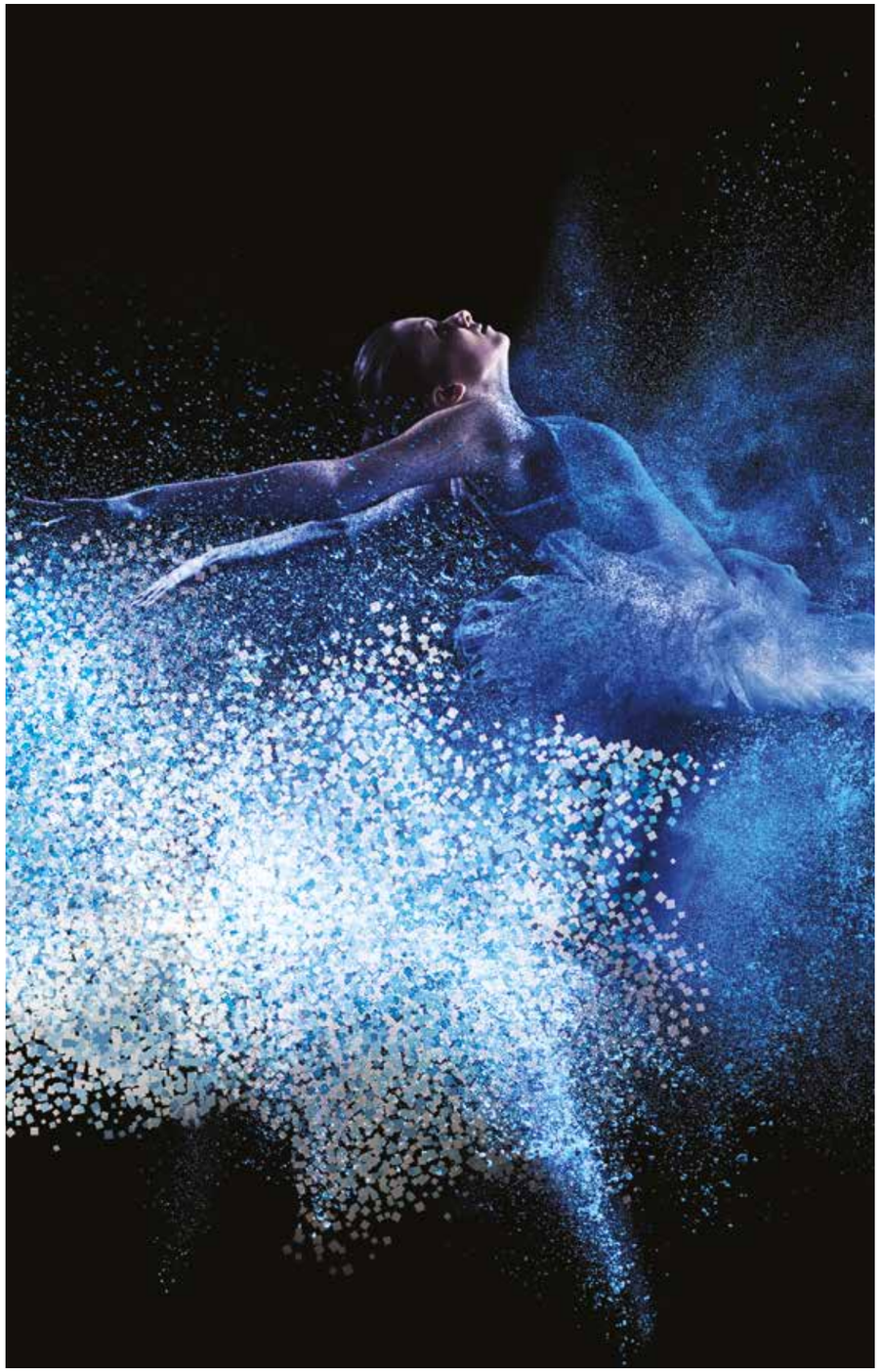
POLIPOM LUB

POLITER LUB B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	C 100 TF4	C 100 SI	C 100 Y10	C 100 30 GF TF3	C 150 15 KF TF2	HF8 SI AL	TF4
			POM COPOLYMER MFI 10 - PTFE LUBRICATED	POM COPOLYMER MFI 10 - SILICONE LUBRICATED	POM COPOLYMER MFI 10 - MOLYBDENUM DISULPHIDE LUBRICATED	POM COPOLYMER MFI 10 30% GLASS FIBER - PTFE LUBRICATED	POM COPOLYMER MFI 13 15% ARAMIDIC FIBER - PTFE LUBRICATED	PBT SILICONE LUBRICATED	PBT PTFE LUBRICATED
DENSITY	ISO 1183	g/cm³	1,53	1,41	1,44	1,73	1,46	1,33	1,42
MELTING POINT	DSC	°C	166	166	166	166	166	225	225
MOLD SHRINKAGE (average)	ISO 294-4	%	1,8 - 2,2	1,8 - 2,1	1,8 - 2,2	1,2 - 1,6	1,6 - 2,0	1,5 - 2,0	1,7 - 2,1
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	0,2 / 0,9	0,2 / 0,9	0,2 / 0,9	0,15 / 0,7	0,17 / 0,7	0,2 / 0,9	0,15 / 0,7
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	160	160	160	155	150	190	200
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	160	150	150	150	130	180	190
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	110	100	100	145	90	60	70
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	-	-	-	-	-	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	80	80	80	80	80	120	120
MECHANICAL PROPERTIES									
TENSILE STRENGTH AT YIELD	ISO 527	MPa	-	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	50	50	60	125	55	50	45
TENSILE MODULUS	ISO 527	MPa	2700	2500	3100	9600	3200	2700	2500
TENSILE STRAIN AT YIELD	ISO 527	%	-	9	5	-	2,5	3,5	3,5
TENSILE STRAIN AT BREAK	ISO 527	%	10	35	10	3	4,5	30	> 10
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	4	8	6	4	5	6	3,5
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	50	NB	55	40	35	NB	30
OTHER PROPERTIES & FLAME RETARDANCY									
COEFFICIENT OF FRICTION - STATIC	ASTM D 3702		0,16	0,26	0,22	0,31	0,18	0,26	0,16
COEFFICIENT OF FRICTION - DYNAMIC	ASTM D 3702		0,10	0,21	0,15	0,29	0,12	0,21	0,13
WEAR FACTOR	ASTM D 3702	mm³/N*m	1,1 E-7	2,8 E-7	2,5 E-7	4 E-7	1,5 E-7	5,0 E-7	4,5 E-7
VOLUME RESISTIVITY	IEC 60093	Ohm·cm	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14	1 E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		-	-	-	-	-	-	-
GLOW WIRE IGNITION TEMPERATURE (GWFI / 2 mm)	IEC 60695-2-12	°C	650	650	650	650	650	700	650
BURNING RATE 350 X 100 X 1 mm	"FMVSS 302 ISO 3795"	mm/min	-	-	-	-	-	< 100	< 100
MOLDING CONDITIONS									
DRYING TEMPERATURE		°C	70-90	70 - 90	70-90	80 - 90	80 - 90	115 - 130	115 - 130
MOLDING TEMPERATURE		°C	180 - 210	180 - 210	180 - 210	180 - 210	180 - 210	230 - 285	230 - 285
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	80 - 100	80 - 100



Remarks:
NB: no break
UL Certification

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ANTISTATIC & CONDUCTIVE

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POLIMID STAT B

POLIMID STAT A

POLIMID STAT A/B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNITS	EM1 UV X234	10 GF EM1 UV X233	20 FC	30 FC	40 FC	20 FC	30 FC	40 FC	1010 GFC	1520 GFC	12 FC	15 FC	16 FC	30 FC
			PA 6 ANTI-STATIC IMPACT RESISTANT UV RESISTANT	PA 6 ANTI-STATIC 10% GLASS FIBER IMPACT RESISTANT UV RESISTANT	PA 6 ANTI-STATIC 20% CARBON FIBER	PA 6 ANTI-STATIC 30% CARBON FIBER	PA 6 ANTI-STATIC 40% CARBON FIBER	PA 66 ANTI-STATIC 20% CARBON FIBER	PA 66 ANTI-STATIC 30% CARBON FIBER	PA 66 ANTI-STATIC 40% CARBON FIBER	PA 66 ANTI-STATIC 10% CARBON FIBER 10% GLASS FIBER	PA 66 ANTI-STATIC 20% CARBON FIBER 15% GLASS FIBER**	PA 6/66 COPOLYMER ANTI-STATIC 12% CARBON FIBER	PA 6/66 COPOLYMER ANTI-STATIC 15% CARBON FIBER	PA 6/66 COPOLYMER ANTI-STATIC 16% CARBON FIBER	PA 6/66 COPOLYMER ANTI-STATIC 30% CARBON FIBER
DENSITY	ISO 1183	g/cm³	1,12	1,18	1,22	1,28	1,31	1,22	1,28	1,31	1,25	1,35	1,18	1,19	1,20	1,28
MELTING POINT	DSC	°C	222	222	222	222	222	260	260	260	260	260	245	245	245	245
MOLD SHRINKAGE (average)	ISO 294-4	%	1,3 – 1,7	0,8 - 1,3	0,3 - 0,5	0,25 - 0,45	0,2 - 0,4	0,3 - 0,5	0,25 - 0,45	0,2 - 0,4	0,35 - 0,65	0,15 - 0,3	0,3 - 0,5	0,3 - 0,5	0,3 - 0,5	0,3 - 0,5
MOISTURE ABSORPTION equilibrium (23°C-50% rh) / saturation	ISO 62	%	2,6 / 8.0	2,4 / 7,2	2,3 / 5,5	2,1 / 5,0	2,1 / 4,8	1,9 / 4,8	1,7 / 4,5	1,5 / 4,0	1,9 / 4,5	1,6 / 4,5	2,1 / 5,0	2,1 / 5,0	2,1 / 5,0	1,9 / 5,0
VICAT A SOFTENING TEMPERATURE 9,8 N	ISO 306	°C	185	205	210	215	215	250	250	255	250	255	240	240	240	250
HEAT DEFLECTION TEMPERATURE 0,45 Mpa	ISO 75-2	°C	150	200	210	215	220	255	260	260	245	255	240	240	240	250
HEAT DEFLECTION TEMPERATURE 1,81 Mpa	ISO 75-2	°C	60	180	205	210	215	245	250	255	235	245	235	235	235	240
HEAT RESISTANCE / Ball Pressure Test	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
CONTINUOUS USE TEMPERATURE (without load)	IEC 60216	°C	80	100	110	115	120	115	120	125	110	115	110	110	110	115
MECHANICAL PROPERTIES																
TENSILE STRENGTH AT YIELD	ISO 527	MPa	65	-	-	-	-	-	-	-	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	-	90	165	200	250	165	205	255	125	150	150	150	155	200
TENSILE MODULUS	ISO 527	MPa	2600	4700	13500	17000	26000	14000	18500	27000	9500	12000	9200	10500	12000	18000
TENSILE STRAIN AT YIELD	ISO 527	%	5,5	-	-	-	-	-	-	-	-	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	> 45	4	2	1,5	1,5	2	1,5	1,5	1,5	1,5	3	2,5	2,5	1,5
IZOD - NOTCHED IMPACT STRENGTH	ISO 180/A	KJ/m²	10	10	7,5	8,5	9	7	8	8,5	7,5	8	6	6,5	6,5	8
IZOD - UNNOTCHED IMPACT STRENGTH	ISO 180/U	KJ/m²	NB	45	50	55	60	50	55	60	50	60	40	50	50	55
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1 E5	1 E5	1 E3	1 E2	1 E2	1 E3	1 E2	1 E2	1 E4	1 E3	1 E3	1 E3	1 E3	1 E3
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB	- / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI / 2 mm)	IEC 60695-2-12	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GLOW WIRE IGNITION TEMPERATURE (GWIT / 2 mm)	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	85 - 100	85 - 100	85 - 100	90 - 100	90 - 100	85- 100	85- 100	85- 100	85- 100
MOLDING TEMPERATURE		°C	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	270 - 290	270 - 290	270 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

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