HiDura™ MED AG33 NT0862





HiDura MED AG33 NT is an injection moldable glass fiber reinforced PA66 resin designed for healthcare applications. It is characterized by excellent strength & stiffness for structural needs. The product is compliant to ISO 10993-5 and ISO 10993-10. It is very easy to color and exhibits good property retention after most sterilization methods.

General			
Additive	• Lubricant	Release agent	
Features	Bromine Free	Chemical Resistant	Corrosion Resistant
	 Creep Resistant 	 Fatigue Resistant 	 Good Colorability
	 Good Dimensional Stability 	 Good Flow 	 Good Impact Strength
	 Good Mold Release 	 Good Processability 	 Good Stiffness
	 Halogen Content, None 	 High Rigidity 	 High Strength
	 High Tensile Strength 	 Hydrolysis Resistant 	 Homopolymer
	 Lubricated 	 Solvent Resistant 	
Agency Rating	BSE/TSE Compliant		
Appearance	Natural Color		
Forms	• Pellets		
Processing Method	Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.40	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow: 23°C, 2.00 mm	0.9	*	%	
Flow: 23°C, 2.00 mm	0.4	*	%	
Water Absorption				ISO 62
23°C, 24 hr	0.8	*	%	
Equilibrium, 23°C, 50% RH	1.7	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	10600	7900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	205	145	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3	5	%	ISO 527-2
Flexural Modulus (23°C)	10200	6500	MPa	ISO 178
Flexural Strength (23°C)	290	200	MPa	ISO 178
Poisson's Ratio (23°C)	0.4			ISO 527-2

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polyamide 66



Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	13	17	kJ/m²	
-30°C	11	11	kJ/m²	
-40°C	11	11	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	86	100	kJ/m²	
-30°C	71	77	kJ/m²	
-40°C	69	75	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	12	16	kJ/m²	
-30°C	10	12	kJ/m²	
-40°C	10	11	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	250	-	°C	
0.45 MPa, Unannealed	260	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow: 23 to 55°C, 2.00 mm	21	*	E-6/K	
Transverse: 23 to 55°C, 2.00 mm	106	*	E-6/K	

Injection	Value	Unit	
Drying Temperature	80	°C	
Drying Time	4	h	
Rear Temperature	280 - 310	°C	
Middle Temperature	280 - 310	°C	
Front Temperature	280 - 310	°C	
Nozzle temperature	280 - 310	°C	
Processing (Melt) Temperature	285 - 305	°C	
Mold Temperature	65 - 95	°C	



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CAUTION: Do not use Ascend Performance Materials Operations MED grades in medical applications involving implantation in the human body or contact with internal body fluids or tissues for extended periods of time.

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