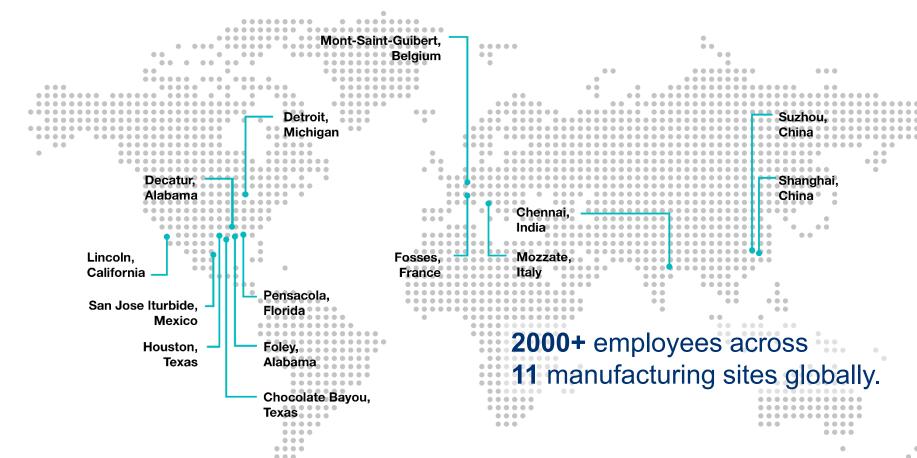




We make high-performance materials for everyday essentials and new technologies. Our purpose is to improve the quality of life today and inspire a better tomorrow.





Participants in





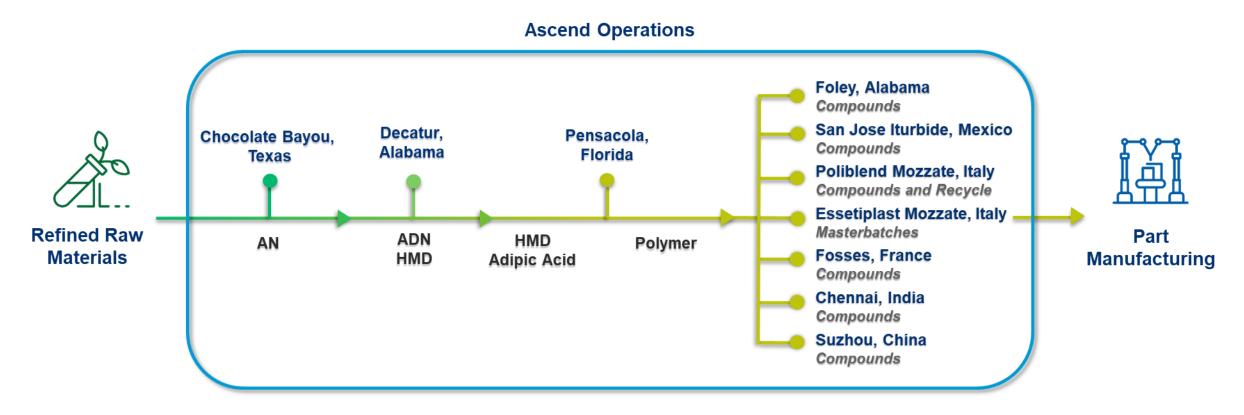




Global excellence, local service







Complete ownership from chemicals through polymerization, compounding, and final medical-grade resin.

The advantages of full integration





Backbone Customization

Optimized stiffness, flexibility, sterilization resistance



Traceability & Quality Control

Full visibility from monomer to resin to engineered material



Lot-to-Lot Consistency

Predictable performance, every shipment



Regulatory Support

ISO 10993 & USP Class VI



Supply Chain Security

Global footprint, captive feedstocks

A broad portfolio of over 350 PA solutions



IHIIDURA MED

Medical-grade polyamides

- ISO 10993-5, -10 compliant
- BSE/TSE, REACH, RoHS compliant
- USP Class VI



Medical-grade polyamides with enhanced protection

- Embedded with antimicrobial and anti-fungal zinc ions
- Anti-odor
- Broad portfolio capability

Amorphous polyamides for packaging

- Enhanced aesthetics
- Increased stiffness
- Reduced shrinkage
- Reduced crystallization rate



Flame-retardant polyamides for electrical safety

- Enhanced relative thermal index (RTI)
- Enhanced heat resistance
- Halogen free



Flagship polyamides

- Temperature resistance
- Tunable performance
- Fast cycling

IHIDURA MED

Our solution for direct contact applications in healthcare

Application spaces:

- Handles, housing and handheld instruments
- Clamps and surgical accessories
- Catheter hubs and introducers
- Wound care and sutures
- Medical connectors
- Medical packaging



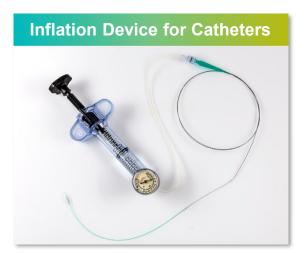
High-performance polyamide 6,6 produced under the highest quality standards. Current portfolio includes neat, impact modified, and glass filled products.

- ISO 10993-5 & -10 compliant
- BSE/TSE, REACH, RoHS compliant
- USP Class VI certified*
- EtO & Gamma sterilization data
- Disinfectant resistance data

Material	Resin type	Density	Tensile modulus (23°C) dry	Tensile stress F (break, 23°C) dry	lexural modulus (23°C) dry	Melting temp.
AP NT0860	Unfilled, fast cycle times.	1.14 g/cm ³	2900 MPa	81 MPa	3300 MPa	
AI1 NT0861	Super tough, impact modified	1.08 g/cm ³	2200 MPa	43 MPa	1800 MPa	260°C
AG33 NT0862	Glass fiber reinforced	1.40 g/cm ³	10600 MPa	205 MPa	10200 MPa	

Applications transitioned to our advanced materials



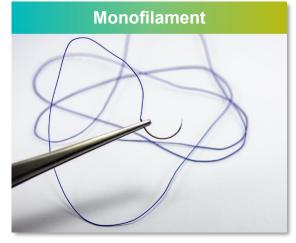
















Embedded with antimicrobial zinc ions to permanently protect materials

Application spaces:

- Wound care
- Skin contact device
- Diagnostic garments
- Hospital lift
- Lymphedema treatment
- Brace
- Wound closure
- Post surgical garments



Acteev MED prevents the formation of biofilm by controlling the bioburden and reducing the bacteria adherence to the surface. ASTM E3151 protocol used to prepare the samples,

- ISO 10993-5 & -10 compliant
- BSE/TSE, REACH, RoHS compliant
- USP Class VI certified*
- EtO & Gamma sterilization data
- Disinfectant resistance data

Material	Function	Density	Tensile modulus (23°C) dry	Tensile stress (break, 23°C) dry	Flexural modulus (23°C) dry	Melting temp.
AP NT0809	Antimicrobial /Antifungal	1.14 g/cm³	3100 MPa	52 MPa	3199 MPa	260°C



Embedded with antimicrobial zinc ions to permanently protect materials

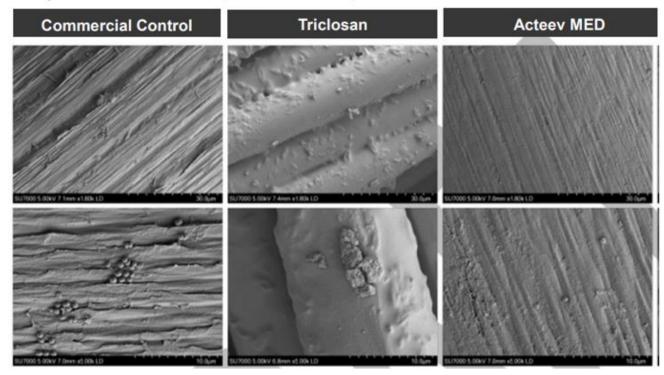
Application spaces:

- Wound care
- Skin contact device
- Diagnostic garments
- Hospital lift
- Lymphedema treatment
- Brace
- Wound closure
- Post surgical garments



Acteev™ MED resists bacterial growth far better than both untreated and Triclosan-treated materials, confirming its potent antimicrobial performance.

Staph. aureus Newman (sensitive strain)



Applications transitioned our antimicrobial raw materials





















IHIDURA PTR

High-performance, durable packaging solutions for demanding medical and pharmaceutical applications.

Low caprolactam leaching.



Our portfolio includes:

The outstanding puncture and tear resistance of HiDura PTR.

The exceptional clarity, gloss and barrier performance of HiDura LUX.

Product	Density	Tensile stress (yield, 23°C, dry)	Tensile strain (break, 23°C, dry)	Flexural strength (23°C, dry)	Melting temp.
HiDura PTR 75HB	1.13 g/cm³	78 MPa	170%	84 MPa	243°C
HiDura PTR 833C	1.12 g/cm³	73 MPa	259%	70 MPa	232°C
HiDura PTR 840F	1.12 g/cm³	70 MPa	212%	74 MPa	227°C
HiDura LUX H3X	1.18 g/cm³	99 MPa	>50%	98 MPa	240-270°C

Application development and technical support

Full material, process and simulation support

Our expert applications team utilizes deep industry knowledge and advanced CAE to optimize designs.

Our mastery of polymer science and components reduces material use, speeds up production, and improves part functionality, enabling a swifter market entry.



Material, science and process support

Material properties

Thermal and chemical aging

Part molding and testing

Onsite molding trials

Failure analysis

Flame retardance testing



Computer-aided engineering support

Part design and application development support

Non-linear structural analysis

Mold filling analysis

Anisotropic analysis







	Low Carbon by insetting	BIOSERVE	Re Defyne [™]
Description	Engineering polymers with low carbon footprints via Ascend offsets	Engineering polymers made with mass balance and measurable bio-derived feedstocks	Engineering polymer compounds with mechanically pre- and post-consumer recycled content
Benefit	Low supplier scope 3 carbon footprint without qualification or further testing	Circularity and slight reduction in carbon footprint by using fewer fossil fuels	Low carbon footprint driven by waste recovery/ circularity
Impact to product performance/specification	Some	None	None
Certifications applicable	Sphera® CLIMATE ACTION RESERVE	ISCC SCC PLUS	Sphera EXECUTION
GHG reductions	0000		

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