

Polymer Distribution for Medical Device Manufacturing

PolyMedex Discovery Group is the exclusive North American sales and distribution partner for Arkema in the medical device market providing Pebax* MED Block Co-polyamides and Rilsan* MED 11 and 12 polyamides. Both product lines are in-stock and ready to ship. Engineers are available to assist with material selection based on your specific application and can help formulate a custom compound including colors, radiopaque fillers, and other specialty additives.



PEBAX® THERMOPLASTIC ELASTOMERS

Pebax® polyether block amides are plasticizer-free thermoplastic elastomers belonging to the engineering polymer family. They are easy to process by injection molding and profile or film extrusion and can be easily melt blended with other polymers. Its unique chemistry (polyether block amide – PEBA) allows Pebax to achieve a wide range of physical and mechanical properties by varying the monomeric block types and ratios. The Pebax product range extends from grades with properties similar to polyamide to grades with properties more like elastomers.

The following benefits make Pebax ideal for medical device components:

- Class VI biocompatibility
- Sterilizable (ETO, steam, gamma)
- Bondable by adhesives and RF welding
- Easily blended with other polymers and compounded with additives
- Excellent dynamic properties due to low hysteresis
- Excellent impact resistance and low rigidification at low temperature
- Consistent durometer and flexibility at room and body temperatures
- Good resistance to most chemicals

Available Pebax Grades:

- 2533
- 3533
- 4033
- 5533
- 6333
- 7033
- 7233
- MX1205



RILSAN® NYLON

Continuously developed by Arkema for more than fifty years, Rilsan® is a reference in the world of performance polyamides (nylon). Produced from a renewable source (castor oil), Rilsan is used in a large number of applications thanks to its outstanding properties:

- Excellent resistance to chemicals (particularly hydrocarbons)
- Ease of processing
- Wide range of working temperatures [-40°-130°C (-40-266°F)]
- High dimensional stability and low density

Rilsan is easy to process, using most processing technologies (extrusion, extrusion-blow molding, injection molding and rotomolding). The product matrix accommodates countless additives and filling agents, such as plasticizers, stabilizers, colorants, lubricants, impact modifiers, glass fiber, carbon fiber, etc. In total, over 100 different grades are available, packaged in sealed bags or containers ready for use.

Available Rilsan Grades:

- AESNO MED
- BESNO MED
- BESVOA FDA
- BMNO MED
- BMNO P40
- AMNO MED



* Pebax® and Rilsan® are registered trademarks of Arkema Inc.

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Enabling Polymer Technologies to Improve the Quality of Life™

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