

Foster Polymer Distribution

Specialty Polymers for Medical Device Manufacturing

Foster Polymer Distribution, a business unit of Foster Corporation, is an authorized sales and distribution partner for Arkema Inc. and TPV Compound Srl in North America. Foster Polymer Distribution provides the medical device market with Pebax® MED polyether block amides, Rilsan® MED polyamide 11, Rilsamid® MED polyamide 12, Kynar RX® PVDF and TPV® PVC. Engineers are available to assist with material selection based on your application and can also help formulate a custom compound including colors, radiopaque fillers, and other specialty additives.



Arkema Pebax® Thermoplastic Elastomers

Pebax® polyether block amides are plasticizer-free thermoplastic elastomers that are easy to process by injection molding and profile or film extrusion and can be easily melt blended with other polymers. Its unique chemistry 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.

Pebax® Properties:

- USP Class VI biocompatibility
- Sterilizable (ETO, steam, gamma)
- Bondable by adhesive and RF welding
- Easily blended with other polymers and compounds 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 SA01 MED
- 3533 SA01 MED
- 4033 SA01 MED
- 4533 SA01 MED (MX1205)
- 5533 SA01 MED
- 6333 SA01 MED
- 7033 SA01 MED
- 7233 SA01 MED
- MV1074 SA01 MED



Arkema Rilsan® and Rilsamid® Nylons

Rilsan® and Rilsamid® are performance polyamides (nylon), produced from a renewable source (castor oil). Rilsan® and Rilsamid® are easy to process using most processing technologies including: 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 etc.

Rilsan® and Rilsamid® Properties:

- Wide range of working temperatures [-40°-130°C (-40°-266°F)]
- High dimensional stability and low density
- Product matrix accommodates additives and filling agents (including plasticizers, stabilizers, colorants, lubricants, impact modifiers, glass fiber, carbon fiber etc.)
- Available in over 100 different grades
- Packaged in seal bags or containers ready for us

Available Rilsan® Grades

- BESNO MED
- BESVOA MED
- BMNO MED
- Rilsan Clear G170 MED

Available Rilsamid® Grades:

- AESNO MED
- AMNO MED



Arkema Kynar® RX PVDF

Kynar RX® is a thermoplastic fluoropolymer, with outstanding physical and mechanical properties. Kynar Rx® resin provides excellent chemical resistance, high purity, high thermal stability and non-stick surface. Unlike other fluoropolymers, Kynar Rx® has high tensile strength and excellent resistance to permeation and radiation. A large processing window allows Kynar Rx® to be injection-molded or extruded into clear, flexible films and tubing, using standard processing equipment.

Kynar® RX Properties:

- USP Class VI biocompatibility
- Low friction properties
- Can be sterilized via autoclave or gamma radiation
- UV transparent
- Offers extremely low extractibles and leachables (in the ppb range)
- Contains no additives or processing aids
- Contains no animal derivatives



Available Kynar® RX Grades:

- Kynar RX® 752



TPV® Compound

TPV® Compound Srl is a leading manufacturing of PVC for medical applications. Available materials include flexible PVC grades with outstanding clarity, ideal for medical tubing and bags. Rigid PVC grades are also available and provide strength and durability for connectors and containers. TPV® PVC offers excellent water and chemical resistance, allowing for pre-sterilization of multi and single-use components, using steam, radiation and ethylene oxide. A complete range of medical grade antimicrobial compounds are also available. PVC medical grades are available for extrusion, thermoforming, blow molding and injection molding of a wide variety of medical components.

Available TPV® Grades:

- AM 189/A
- AM 169/A
- AM 663/A
- AM 194/A
- AM 22
- AMG 100
- AMG 101



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