

AdvanSource Biomaterials ChronoPrene™ 40A Thermoplastic Rubber Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

ChronoPrene™ is a family of biocompatible thermoplastic elastomeric materials. ChronoPrene™ is a family of easy molding, high flow rubber, with excellent chemical resistance to alcohols, acids, and bases. ChronoPrene™ is offered as a translucent resin in a durometer hardness of 5 - 40 Shore A. The outstanding characteristic of this family of compounds is their ability to be injection molded at temperatures between 175°C and 235°C. The result is an injected molded part with very good surface smoothness and excellent elasticity. ChronoPrene™ elastomeric resins are thermoplastic rubbers, which can be extruded or molded by standard thermoplastic processing equipment. Most traditional rubbers are thermosetting in nature, often making them difficult to compound, mold, and are not always biocompatible. Information provided by AdvanSource Biomaterials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AdvanSource-Biomaterials-ChronoPrene-40A-Thermoplastic-Rubber-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	3 sec.; ASTM D2240
Tensile Strength, Ultimate	4.83 MPa	700 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412

Processing Properties	Metric	English	Comments
Processing Temperature	<= 127 °C	<= 260 °F	Upper stability limit
Mold Temperature	-1.11 - 12.8 °C	30.0 - 55.0 °F	Warp-free parts
	79.4 - 113 °C	175 - 235 °F	Maximum surface smoothness and rubberiness

Descriptive Properties	Value	Comments
Color	Translucent	

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