

Lubrizol ISOPLAST™ 2560 Engineering Thermoplastic Polyurethane Resin for Medical Applications

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Features: USP Class VI Available in Americas, Europe, Middle East, Africa, India and Asia Available Information provided by Lubrizol
Lubrizol acquired the Isoplast product line from Dow in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ISOPLAST-2560-Engineering-Thermoplastic-Polyurethane-Resin-for-Medical-Applications.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.71 g/cc	1.71 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	228 MPa	33000 psi	ASTM D638
Tensile Strength, Yield	228 MPa	33000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	17.2 GPa	2500 ksi	ASTM D638
Flexural Strength	393 MPa	57000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	
Dart Drop, Total Energy	25.0 J	18.4 ft-lb	ASTM D3763
	@Temperature -28.9 °C	@Temperature -20.0 °F	
	29.0 J	21.4 ft-lb	ASTM D3763
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear	10.8 µm/m-°C Metric	6.00 µm/in-°F English	Comments ASTM D638
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	260 °F	unannealed; ASTM D648
	127 °C	260 °F	annealed; ASTM D648
Vicat Softening Point	186 °C	366 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 260 °C	460 - 500 °F	
Mold Temperature	66.0 - 88.0 °C	151 - 190 °F	
Drying Temperature	82.0 - 99.0 °C	180 - 210 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China