

Lubrizol Isoplast® 2530 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
Data 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-2530-Engineering-Thermoplastic-Polyurethane-Resin-for-Medical-Applications.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	55	55	ASTM D785
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	160 %	160 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Unnotched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
	0.950 J/cm	1.78 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
Dart Drop, Total Energy	75.0 J	55.3 ft-lb	ASTM D3763
	@Temperature -29.0 °C	@Temperature -20.2 °F	

Mechanical Properties	80.0 J Metric	59.0 ft-lb English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	Unannealed; ASTM D648
	93.0 °C	199 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Unannealed; ASTM D648
	89.0 °C	192 °F	Annealed; ASTM D648
Vicat Softening Point	101 °C	214 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Yellow Index	10 %	10 %	ASTM D1925
Transmission, Visible	93 %	93 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	221 - 243 °C	430 - 469 °F	
Mold Temperature	66.0 - 82.0 °C	151 - 180 °F	
Drying Temperature	85.0 - 91.0 °C	185 - 196 °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