

Lubrizol Isoplast® 2510 Engineering Thermoplastic Polyurethane Resin

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Feature: 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-2510-Engineering-Thermoplastic-Polyurethane-Resin.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.17 %	0.17 %	24 hrs at 23°C; 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 R	116	116	ASTM D648
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	160 %	160 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	1.50 GPa	218 ksi	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Unnotched	1.80 J/cm	3.37 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
	11.0 J/cm	20.6 ft-lb/in	
	@Thickness 6.40 mm, Temperature 23.0 °C	@Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	12.8 J/cm	24.0 ft-lb/in	
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
Dart Drop, Total Energy	68.0 J	50.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -29.0 °C	@Temperature -20.2 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 µm/m-°C	45.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	Unannealed; ASTM D648
	82.0 °C	180 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Unannealed; ASTM D648
	77.0 °C	171 °F	Annealed; ASTM D648
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	100 %	100 %	Gardner Gloss, 60°; ASTM D823

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 245 °C	428 - 473 °F	
Mold Temperature	65.0 - 80.0 °C	149 - 176 °F	
Drying Temperature	85.0 - 90.0 °C	185 - 194 °F	

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