

Diamond Polymers SAN 280 Styrene Acrylonitrile, Transparent Engineering Thermoplastic

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Transparent

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-SAN-280-Styrene-Acrylonitrile-Transparent-Engineering-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	14.3 g/10 min	14.3 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	63.7 MPa	9240 psi	chs 2.0 in/min; ASTM D638
Flexural Modulus	3.43 GPa	497 ksi	chs 0.05 in/min; tangent; ASTM D790
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	106 °C	223 °F	ASTM D1525
	@Load 1.00 kg, Thickness 3.17 mm	@Load 2.20 lb, Thickness 0.125 in	
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Optical Properties	Metric	English	Comments
Haze	1.1 %	1.1 %	ASTM D1003

Transmission Visible Optical Properties	90.5 % Metric	90.5 % English	ASTM D1003 Comments
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