

Diamond Polymers ASA S950

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Description: ASA Weatherable Polymer, Injection Molding Grade, Very High Impact Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ASA-S950.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	0.80 g/10 min	0.80 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	2.5 g/10 min	2.5 g/10 min	Procedure A Condition I; ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	87	87	ASTM D785
Tensile Strength, Yield	35.9 MPa	5200 psi	chs 2 in/min; ASTM D638
Flexural Modulus	1.61 GPa	233 ksi	Tangent, chs 0.05 in/min; ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	bar; ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
	91.1 °C	196 °F	0.125 in bar Annealed 4 hours at 80°C; ASTM D648
Vicat Softening Point	104 °C	219 °F	0.125 inch, 1 Kg; ASTM D1525

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