

Diamond Polymers ASA 5946

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ASA-5946.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	0.20 g/10 min	0.20 g/10 min	Procedure A; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	1.3 g/10 min	1.3 g/10 min	Procedure A Condition I; ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	4.0 g/10 min	4.0 g/10 min	Procedure A; ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength, Yield	51.7 MPa	7500 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.69 GPa	390 ksi	Tangent, chs 0.05 in/min; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 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)	100 °C	212 °F	0.125 in bar Unannealed/Conditioned 40 hours at 23°C; ASTM D648
	110 °C	230 °F	0.25 in bar Unannealed/Conditioned 40 hours at 23°C; ASTM D648
Vicat Softening Point	130 °C	266 °F	0.125 inch, 1 Kg; ASTM D1525

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