

Diamond Polymers ABS 3501 Natural 1002 ESCR Injection Molding Grade, Environmental Stress Crack Resistant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

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-ABS-3501-Natural-1002-ESCR-Injection-Molding-Grade-Environmental-Stress-Crack-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	0.70 g/10 min	0.70 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	3.0 g/10 min	3.0 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	108	108	ASTM D785
Tensile Strength, Yield	44.8 MPa	6500 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.345 GPa	340.1 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 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	104 °C	219 °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	

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