

Diamond Polymers ABS 3500 ELG Natural 1003 Injection Molding Grade, High Flow, Medium Impact, Low Gloss

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, 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-3500-ELG-Natural-1003-Injection-Molding-Grade-High-Flow-Medium-Impact-Low-Gloss.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 3.80 kg, Temperature 230 °C	12 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength, Yield	41.3 MPa	5990 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.067 GPa	299.8 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	1.33 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	2.49 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	102 °C @Load 1.00 kg, Thickness 3.17 mm	216 °F @Load 2.20 lb, Thickness 0.125 in	ASTM D1525
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

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