

## Diamond Polymers ABS 4501 Injection Molding Grade, High Impact

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

**Material Notes:**

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-ABS-4501-Injection-Molding-Grade-High-Impact.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-ABS-4501-Injection-Molding-Grade-High-Impact.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	1.5 g/10 min	1.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	8.3 g/10 min	8.3 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	104	104	ASTM D785
Tensile Strength, Yield	43.0 MPa	6240 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.17 GPa	315 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	2.78 J/cm	5.21 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	108 °C	226 °F	ASTM D1525
	@Load 1.00 kg, Thickness 3.17 mm	@Load 2.20 lb, Thickness 0.125 in	

### Contact Songhan Plastic Technology Co.,Ltd.

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