

Diamond Polymers NPS80-1800B Injection Molding Grade, General Purpose Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

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-NPS80-1800B-Injection-Molding-Grade-General-Purpose-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 200 °C	18 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	34.5 MPa	5000 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Tensile Modulus	0.303 GPa	43.9 ksi	at yield; chs 2.0 in/min; ASTM D638
Flexural Modulus	3.169 GPa	459.6 ksi	tangent; chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.107 J/cm @Thickness 3.17 mm	0.200 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	86.0 °C @Load 1.00 kg, Thickness 3.17 mm	187 °F @Load 2.20 lb, Thickness 0.125 in	ASTM D1525

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