

Network Polymers NPS 90-0827 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Description: Injection Molding Grade, High Impact Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-NPS-90-0827-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 °C	8.0 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.4 MPa	3100 psi	chs 2 in/min; ASTM D638
Elongation at Break	48 %	48 %	ASTM D638
Tensile Modulus	1.99 GPa	288 ksi	chs 2 in/min; ASTM D638
Flexural Modulus	2.00 GPa	290 ksi	Test Method I, Procedure B (chs speed 0.05 in/min); ASTM D790
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	Test Method A (0.125 in bar); ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C	178 °F	Annealed; ASTM D648
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525

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