

Network Polymers NPS 90-0304 F Super High Impact Polystyrene

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-NPS-90-0304-F-Super-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	2.4 g/10 min @Load 5.00 kg, Temperature 200 °C	2.4 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.44 MPa	4125 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	49.01 MPa	7109 psi	ASTM D790
Flexural Modulus	2.2433 GPa	325.37 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	Injection Molding; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Vicat Softening Point	103 °C	217 °F	ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Optical Properties	Metric	English	Comments
Gloss	85 %	85 %	at 60° geometry; ASTM D2457

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