

## Network Polymers NPS 90-0645 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-90-0645-Super-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Network-Polymers-NPS-90-0645-Super-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 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	20.7 MPa	3000 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D638
Flexural Modulus	7.109 GPa	1031 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	Injection Molding; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	ASTM D648
Vicat Softening Point	96.0 °C	205 °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	80 %	80 %	at 60° geometry; ASTM D2457

## Contact Songhan Plastic Technology Co.,Ltd.

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