

Network Polymers MS 175 Styrene Methyl Methacrylate Terpolymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Polystyrene (PS) , Styrene/Methyl Methacrylate Copolymer (SMMA)

Material Notes:

Description: Styrene Methyl Methacrylate Terpolymer Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-MS-175-Styrene-Methyl-Methacrylate-Terpolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 200 °C	5.5 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	ASTM D2240
Tensile Strength at Break	25.5 MPa	3700 psi	chs 2 in/min; ASTM D638
Elongation at Break	52 %	52 %	chs 2 in/min; ASTM D638
Flexural Modulus	1.58 GPa	229 ksi	Test Method I, Procedure B (chs speed 0.05 in/min); ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	0.125 inch bar; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	Unannealed/Conditioned 48 hours at 23°C; ASTM D648
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.6 %	2.6 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

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