

Network Polymers MS 110 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-110-Styrene-Methyl-Methacrylate-Terpolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 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	0.40 g/10 min @Load 5.00 kg, Temperature 200 °C	0.40 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	64.1 MPa	9300 psi	chs 2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	chs 2 in/min; ASTM D638
Tensile Modulus	3.45 GPa	500 ksi	chs 2 in/min; ASTM D638
Flexural Modulus	3.02 GPa	438 ksi	Test Method I, Procedure B (chs speed 0.05 in/min); ASTM D790
Izod Impact, Notched	0.246 J/cm	0.460 ft-lb/in	0.125 inch bar; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	101 °C	214 °F	ASTM D1525

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

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