

Diamond Polymers MS-170 Styrene Methyl Methacrylate Terpolymer

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

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-MS-170-Styrene-Methyl-Methacrylate-Terpolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	9.6 g/10 min	9.6 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	26.9 g/10 min	26.9 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength at Break	28.6 MPa	4150 psi	chs 2.0 in/min; ASTM D882
Elongation at Break	54 %	54 %	chs 2.0 in/min; ASTM D882
Flexural Modulus	1.86 GPa	270 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.346 J/cm	0.648 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525

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

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