

Network Polymers SMMA MS 100

Styrene Methyl Methacrylate Acrylic Copolymer

Network Polymers, Inc.

Message:

Network Polymers SMMA MS 100 is a Styrene Methyl Methacrylate Acrylic Copolymer product. It is available in North America. Typical application: Food Contact Applications. Primary characteristic: copolymer.

General Information			
Features	Copolymer		
Agency Ratings	FDA 21 CFR 177.1640		
	FDA 21 CFR 177.1830		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 kg)	0.40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	3450	MPa	ASTM D638
Tensile Strength ³ (Break)	65.5	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	2.3	%	ASTM D638
Flexural Modulus ⁵	3160	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	25	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	92.8	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
NOTE			
1.	Procedure A		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		
5.	Method I (3 point load), 1.3 mm/min		

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