

Network Polymers SMMA MS 170

Styrene Methyl Methacrylate Acrylic Copolymer

Network Polymers, Inc.

Message:

Network Polymers SMMA MS 170 is a Styrene Methyl Methacrylate Acrylic Copolymer product. It is available in North America. Typical application: Food Contact Applications.

General Information	
Features	Terpolymer
Agency Ratings	FDA 21 CFR 177.1640
	FDA 21 CFR 177.1830

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	9.6	g/10 min	
230°C/3.8 kg	27	g/10 min	
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	28.6	MPa	ASTM D638
Tensile Elongation ³ (Break)	54	%	ASTM D638
Flexural Modulus ⁴	1860	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	27	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	82.8	°C	
1.8 MPa, Unannealed	67.2	°C	
Vicat Softening Temperature	96.1	°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.	Method I (3 point load), 1.3 mm/min
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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

