

Network Polymers SMMA MS 125

Styrene Methyl Methacrylate Acrylic Copolymer

Network Polymers, Inc.

Message:

Network Polymers SMMA MS 125 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	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	0.60	g/10 min	
230°C/3.8 kg	2.6	g/10 min	
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Break)	57.6	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.2	%	ASTM D638
Flexural Modulus ⁴	2810	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	23	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	103	°C	ASTM D1525
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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