

Network Polymers SMMA MS 221

Styrene Methyl Methacrylate Acrylic Copolymer

Network Polymers, Inc.

Message:

Network Polymers SMMA MS 221 is a Styrene Methyl Methacrylate Acrylic Copolymer product. It is available in North America. Primary characteristic: copolymer.

General Information			
Features	Copolymer		
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)	1.9	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	57.9	MPa	ASTM D638
Tensile Elongation ³ (Yield)	2.1	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ASTM D1525 ⁴
Optical	Nominal Value	Unit	Test Method
Transmittance	91.3	%	ASTM D1003
NOTE			
1.	Procedure A		
2.	51 mm/min		
3.	51 mm/min		
4.	Rate B (120°C/h), Loading 1 (10 N)		

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