

Technical Data Sheet

Network Polymers Smma MS 200

Styrene Methyl Methacrylate Acrylic Copolymer
 LyondellBasell Industries
 Engineering Plastics

General

Features	• Copolymer
Agency Ratings	• FDA 21 CFR 177.1640 • FDA 21 CFR 177.1830

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°c/5.0 Kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Water Absorption (24 Hr)	0.11 %	0.11 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	8300 psi	57.2 MPa	ASTM D638
Tensile Elongation ² (Yield)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	454000 psi	3130 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 In (3.18 Mm))	0.30 ft·lb/in	16 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-scale)	75	75	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	169 °F	76.1 °C	ASTM D648
Vicat Softening Temperature	208 °F	97.7 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance	90.0 %	90.0 %	ASTM D1003

Notes
¹ Procedure A
² 2.0 in/min (51 mm/min)

Notes
 These are typical property values not to be construed as specification limits.