Technical Data Sheet

Network Polymers Smma MS 150

Styrene Methyl Methacrylate Acrylic Copolymer
LyondellBasell Industries
Engineering Plastics

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (200°c/5.0 Kg)	4.1 g/10 min	4.1 g/10 min	ASTM D1238
Water Absorption (24 Hr)	0.10 %	0.10 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	320000 psi	2210 MPa	ASTM D638
Tensile Strength [2]	4990 psi	34.4 MPa	ASTM D638
Tensile Elongation [2] (Break)	31 %	31 %	ASTM D638
Flexural Modulus [3]	266000 psi	1830 MPa	ASTM D790B
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (0.125 In (3.18 Mm))	0.50 ft·lb/in	27 J/m	ASTM D256A
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	75	75	ASTM D2240
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	181 °F	82.8 °C	
Vicat Softening Temperature	207 °F	97.2 °C	ASTM D1525
Optical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Light Transmittance	89.0 %	89.0 %	ASTM D1003

Notes

[1] Procedure A

[2] 2.0 in/min (51 mm/min)

[3] Method I (3 point load), 0.050 in/min (1.3 mm/min)

Notes

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