

Technical Data Sheet

Network Polymers Smma MS 125

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	1.08	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	0.60 g/10 min	
230°C/3.8 Kg	2.6 g/10 min	2.6 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Break)	8350 psi	57.6 MPa	ASTM D638
Tensile Elongation ² (Break)	3.2 %	3.2 %	ASTM D638
Flexural Modulus ³	408000 psi	2810 MPa	ASTM D790B
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 In (3.18 Mm))	0.44 ft-lb/in	23 J/m	ASTM D256A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	82	82	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	194 °F	90.0 °C	
Vicat Softening Temperature	217 °F	103 °C	ASTM D1525

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.