

Technical Data Sheet

**Network Polymers Smma MS 125**

Styrene Methyl Methacrylate Acrylic Copolymer

LyondellBasell Industries

Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Terpolymer

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

Notes¹ Procedure A² 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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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