

Technical Data Sheet

# Network Polymers Smma MS 230

Styrene Methyl Methacrylate Acrylic Copolymer  
 LyondellBasell Industries  
 Engineering Plastics

**General**

- Features • Copolymer

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.09	1.09 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (200°C/5.0 Kg)	2.2 g/10 min	2.2 g/10 min	ASTM D1238
Water Absorption (24 Hr)	0.15 %	0.15 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Yield)	8800 psi	60.7 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	2.3 %	2.3 %	ASTM D638
Flexural Modulus	460000 psi	3170 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
Vicat Softening Temperature	220 °F	104 °C	ASTM D1525 <sup>3</sup>
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance	91.4 %	91.4 %	ASTM D1003

**Notes**  
<sup>1</sup> Procedure A  
<sup>2</sup> 2.0 in/min (51 mm/min)  
<sup>3</sup> Rate B (120°C/h), Loading 1 (10 N)

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