

Technical Data Sheet

Network Polymers Ps HIPS 90 0802

High Impact Polystyrene
LyondellBasell Industries
Engineering Plastics

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 Kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ²	230000 psi	1590 MPa	ASTM D638
Tensile Strength ² (Break)	3900 psi	26.9 MPa	ASTM D638
Tensile Elongation (Break)	45 %	45 %	ASTM D638
Flexural Modulus ³	280000 psi	1930 MPa	ASTM D790B
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 In (3.18 Mm))	1.9 ft·lb/in	100 J/m	ASTM D256A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (L-scale)	47	47	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Annealed	178 °F	81.1 °C	ASTM D648
Vicat Softening Temperature	185 °F	85.0 °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.