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/cm³	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			ASTM D648
264 Psi (1.8 Mpa), Annealed	178 °F	81.1 °C	
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.