

Network Polymers Ps CPS 80 0800

General Purpose Polystyrene

LyondellBasell Industries

Engineering Plastics

General			
Features	• Crystal		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (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 ¹	417000 psi	2880 MPa	ASTM D638
Tensile Strength ¹ (Break)	6300 psi	43.4 MPa	ASTM D638
Tensile Elongation (Break)	1.0 %	1.0 %	ASTM D638

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 D256A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (L-scale)	74	74	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 Psi (1.8 Mpa), Unannealed	190 °F	87.8 °C	
Vicat Softening Temperature	209 °F	98.3 °C	ASTM D1525

Notes

¹ 2.0 in/min (51 mm/min)

Notes

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

