Technical Data Sheet

Network Polymers Ps CPS 80 1800

General Purpose Polystyrene
LyondellBasell Industries
Engineering Plastics

General		
Features	• Crystal	• High Flow
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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°c/5.0 Kg)	18 g/10 min	18 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus [1]	430000 psi	2960 MPa	ASTM D638
Tensile Strength [1] (Break)	6900 psi	47.6 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))	0.25 ft·lb/in	13 J/m	ASTM D256A
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (L-scale)	71	71	ASTM D785
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 Psi (1.8 Mpa), Unannealed	185 °F	85.0 °C	
Vicat Softening Temperature	200 °F	93.3 °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.