

Technical Data Sheet

Polyman (ABS) LP 320 BLACK EF

Acrylonitrile Butadiene Styrene

LyondellBasell Industries

Engineering Plastics

Product Description

Special grade

General

UL File Number	• E86615
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg)	19 cm ³ /10min	19 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	6890 psi	47.5 MPa	
Break	5260 psi	36.3 MPa	
Tensile Strain (Yield)	2.5 %	2.5 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	18 %	18 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.1 ft·lb/in ²	8.6 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	215 °F	102 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	

Notes

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