

Technical Data Sheet

POLYMAN® (ABS) LC HH

Acrylonitrile Butadiene Styrene
Engineering Plastics

Product Description

Heat resistance ABS grade with high colour

General

Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.06 g/cm ³	1.06 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	7.00 cm ³ /10min	7.00 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	347000 psi	2390 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	6960 psi	48.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.9 %	2.9 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	6.7 ft·lb/in ²	14 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	43 ft·lb/in ²	91 kJ/m ²	
73°F (23°C)	No Break	No Break	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	207 °F	97.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	180 °F	82.0 °C	ISO 75-2/Af
264 psi (1.8 MPa), Annealed	226 °F	108 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	237 °F	114 °C	ISO 306/A50
--	219 °F	104 °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

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

Notes

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