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/cm³	1.06 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	7.00 cm³/10min	7.00 cm³/10min	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/in²	9.0 kJ/m²	
73°F (23°C)	6.7 ft·lb/in²	14 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	43 ft·lb/in²	91 kJ/m²	
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.