

Technical Data Sheet

POLYMAN® (ABS) LP 128/2 GL

Acrylonitrile Butadiene Styrene
Engineering Plastics

Product Description

Medium impact ABS grade especially for electroplating

General

Features	• Medium Impact Resistance	• Platable
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• ABS	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm³	1.04 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	36 cm³/10min	36 cm³/10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	6380 psi	44.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.4 %	2.4 %	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)	8.1 ft·lb/in²	17 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	47 ft·lb/in²	98 kJ/m²	
73°F (23°C)	No Break	No Break	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	15100 psi	104 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	181 °F	83.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	162 °F	72.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	212 °F	100 °C	ISO 306/A50
--	201 °F	94.0 °C	ISO 306/B50

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	2.0 in/min	52 mm/min	ISO 3795
0.0787 in (2.00 mm)	2.0 in/min	52 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1200 °F	650 °C	
0.12 in (3.0 mm)	1200 °F	650 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1250 °F	675 °C	
0.12 in (3.0 mm)	1250 °F	675 °C	

Notes

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