

POLYMAN® (ABS) LP 299/2 GL A

Acrylonitrile Butadiene Styrene

Product Description

Medium impact ABS grade, antistatic

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• South America
Additive	• Antistatic		
Features	• Antistatic	• Medium Impact Resistance	
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >ABS<		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	1.28 in ³ /10min	21.0 cm ³ /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)	6240 psi	43.0 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)	5.2 ft-lb/in ²	11 kJ/m ²	
73°F (23°C)	10 ft-lb/in ²	21 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
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	189 °F	87.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	165 °F	74.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	221 °F	105 °C	ISO 306/A50
--	205 °F	96.0 °C	ISO 306/B50

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.0591 in (1.50 mm)	HB	HB	
0.118 in (3.00 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.0591 in (1.50 mm)	1200 °F	650 °C	
0.118 in (3.00 mm)	1200 °F	650 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.0591 in (1.50 mm)	1250 °F	675 °C	
0.118 in (3.00 mm)	1250 °F	675 °C	
Flammability	1 in/min	36 mm/min	FMVSS 302