

Technical Data Sheet

Polyman FABS 17 GF

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description

17% glass fibre reinforced ABS grade

General

Filler / Reinforcement	• Glass Fiber, 17% Filler by Weight
Automotive Specifications	• GM QK 002211 Color: 70105 Black • IMDS ID 6854984 Color: 70105 Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS-GF

Physical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.16 g/cm ³	1.16 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg)	7.0 cm ³ /10min	7.0 cm ³ /10min	ISO 1133

Mechanical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	725000 psi	5000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	8700 psi	60.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/1A/5

Impact

	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	
73°F (23°C)	3.3 ft·lb/in ²	7.0 kJ/m ²	
Charpy Unnotched Impact Strength	7.1 ft·lb/in ²	15 kJ/m ²	ISO 179/1eU

Hardness

	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	13200 psi	91.0 MPa	ISO 2039-1

Thermal

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	219 °F	104 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	214 °F	101 °C	ISO 75-2/ Af
Vicat Softening Temperature	212 °F	100 °C	ISO 306/B50

Electrical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1

Flammability

	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	

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.