

Technical Data Sheet

Hostacom PPH GF 35 LM MD LE H3 BLACK

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description

35% glass fibre reinforced PP-Homopolymer, long term heat stabilized, laser markable, low emission. Available in black color.

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	<ul style="list-style-type: none"> • Heat Stabilized • Homopolymer • Laser Markable • Low Emissions
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm ³	1.17 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	3.7 g/10 min	3.7 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.11E+6 psi	7660 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	14500 psi	100 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.7 %	3.7 %	ISO 527-2/1A/5
Flexural Modulus	1.13E+6 psi	7800 MPa	ISO 178
Flexural Stress (3.5% Strain)	22500 psi	155 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	5.7 ft·lb/in ²	12 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	28 ft·lb/in ²	59 kJ/m ²	ISO 179/1eU

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	309 °F	154 °C	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	288 °F	142 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	282 °F	139 °C	ISO 306/B
--	324 °F	162 °C	ISO 306/A

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Injection Notes

Drying normally not necessary.

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

Notes

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