

Technical Data Sheet

Hostacom FPP 30 GFC K1041

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description

30% glass fiber reinforced PP-Homopolymer chemically coupled
 Former name: Polyfort FPP 30 GFC K1041

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemically Coupled • Homopolymer
UL File Number	• E86615
Processing Method	• Injection Molding

Physical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.12 g/cm ³	1.12 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 Kg)	6.0 cm ³ /10min	6.0 cm ³ /10min	ISO 1133

Mechanical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	957000 psi	6600 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	13100 psi	90.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.3 %	3.3 %	ISO 527-2/1A/5
Flexural Modulus ¹	957000 psi	6600 MPa	ISO 178
Flexural Stress ¹			ISO 178
3.4% Strain	20300 psi	140 MPa	
3.6% Strain ²	20300 psi	140 MPa	

Impact

	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	5.2 ft·lb/in ²	11 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	24 ft·lb/in ²	50 kJ/m ²	
73°F (23°C)	28 ft·lb/in ²	58 kJ/m ²	

Hardness

	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	17400 psi	120 MPa	ISO 2039-1

Thermal

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	311 °F	155 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	284 °F	140 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	271 °F	133 °C	ISO 306/B50
--	316 °F	158 °C	ISO 306/A50
Ball Pressure Test (293°F (145°C))	Pass	Pass	IEC 60695-10-2

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

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	2.3 in/min	58 mm/min	ISO 3795
0.0787 In (2.00 Mm)	2.3 in/min	58 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)	1430 °F	775 °C	
0.12 In (3.0 Mm)	1430 °F	775 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1470 °F	800 °C	
0.12 In (3.0 Mm)	1470 °F	800 °C	

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

Simulaton data (also for Crash simulation) is available on special request

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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 Rate	Moderate-Fast	Moderate-Fast

Injection Notes

Polypropylene is not hygroscopic and generally does not require drying. As a good practice and to avoid residual humidity from transport or storage conditions, we recommend drying the material.

Ensure good mold venting

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.

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Notes

¹ 0.079 in/min (2.0 mm/min)

² at Break

Notes

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