

Technical Data Sheet

# Polyfort FIPP 15 GFC BM K2258

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

15% glass fibre reinforced PP copolymer compound; chemically coupled; blow molding grade; contains metal deactivator; heat stabilised

**General**

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Processing Method	• Blow Molding • Extrusion • Injection Molding
Resin ID (ISO 1043)	• PP-C 15 GFC BM

**Physical**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.01 g/cm <sup>3</sup>	1.01 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 Kg)	1.0 cm <sup>3</sup> /10min	1.0 cm <sup>3</sup> /10min	ISO 1133

**Mechanical**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	442000 psi	3050 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	5080 psi	35.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	11 %	11 %	ISO 527-2/1A/5
Flexural Modulus <sup>1</sup>	377000 psi	2600 MPa	ISO 178
Flexural Stress <sup>1</sup>			ISO 178
6.0% Strain	8270 psi	57.0 MPa	
3.5% Strain	7400 psi	51.0 MPa	

**Impact**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.3 ft·lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	
73°F (23°C)	8.6 ft·lb/in <sup>2</sup>	18 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	19 ft·lb/in <sup>2</sup>	40 kJ/m <sup>2</sup>	
73°F (23°C)	25 ft·lb/in <sup>2</sup>	52 kJ/m <sup>2</sup>	

**Hardness**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/10)	10200 psi	70.0 MPa	ISO 2039-1

**Thermal**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	293 °F	145 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	212 °F	100 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	178 °F	81.0 °C	ISO 306/B50
--	320 °F	160 °C	ISO 306/A50

**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	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 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	

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**Additional Information**

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

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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.