

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                 |                      |

Technical Data Sheet



***Polyfort* FIPP 15 GFC BM K2258**

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

**Additional Information**

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

Technical Data Sheet

## Polyfort FIPP 15 GFC BM K2258

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics



| 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.