

Polyfort FPP 30 GFC K1079 BLK

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

30 % glass fibre reinforced PP-Homopolymer, long term heat stabilized, low emission.

General

| | |
|------------------------|--|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Additive | • Heat Stabilizer |
| Features | • Chemically Coupled • Heat Stabilized • Homopolymer |
| Processing Method | • Injection Molding |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|------------------------|----------------|
| Density | 1.13 | g/cm ³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 5.0 | cm ³ /10min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 943000 | psi | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 12300 | psi | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.0 | % | ISO 527-2/1A/5 |
| Flexural Modulus ² | 870000 | psi | ISO 178 |
| Flexural Stress ² | | | ISO 178 |
| 3.4% Strain | 18600 | psi | |
| 3.6% Strain | 18300 | psi | |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F | 3.8 | ft·lb/in ² | |
| 73°F | 4.8 | ft·lb/in ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°F | 21 | ft·lb/in ² | |
| 73°F | 23 | ft·lb/in ² | |
| Hardness | Nominal Value | Unit | Test Method |
| Ball Indentation Hardness (H 358/30) | 18600 | psi | ISO 2039-1 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 318 | °F | ISO 75-2/Bf |
| Deflection Temperature Under Load 264 psi, Unannealed | 293 | °F | ISO 75-2/Af |
| Vicat Softening Temperature | | | |
| -- | 266 | °F | ISO 306/B50 |
| -- | 329 | °F | ISO 306/A50 |
| Ball Pressure Test (293°F) | Pass | | IEC 60695-10-2 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+15 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+13 | ohms·m | IEC 62631-3-1 |

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| Flammability | Nominal Value | Unit | Test Method |
|--------------------------------|----------------------|-------------|----------------------|
| Burning Rate | | | |
| 0.0787 in | 2.3 | in/min | ISO 3795 |
| 0.0787 in | 2.3 | in/min | FMVSS 302 |
| Flammability Classification | | | IEC 60695-11-10, -20 |
| 0.06 in | HB | | |
| 0.12 in | HB | | |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.06 in | 1340 | °F | |
| 0.12 in | 1380 | °F | |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 0.06 in, Passes | 1380 | °F | |
| 0.12 in, Passes | 1430 | °F | |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|----------------------|-------------|
| Drying Temperature | 176 | °F |
| Drying Time | 2.0 to 3.0 | hr |
| Processing (Melt) Temp | 428 to 500 | °F |
| Mold Temperature | 86 to 140 | °F |
| Injection Rate | Moderate-Fast | |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min