**Technical Data Sheet**

# *Polyfort* FPP 40 TF K2089

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

| Product Description |
|---|
| 40% talc filled PP homopolymer, easy flow |

| General | | |
|---|---|---|
| Filler / Reinforcement | • Talc, 40% Filler by Weight | |
| Features | • Good Flow | • Homopolymer |
| Processing Method | • Injection Molding | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.27 g/cm³ | 1.27 g/cm³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (230°c/2.16 Kg) | 16 cm³/10min | 16 cm³/10min | ISO 1133 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 450000 psi | 3100 MPa | ISO 527-1/1A/1 |
| Tensile Stress (Yield) | 3920 psi | 27.0 MPa | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 3.0 % | 3.0 % | ISO 527-2/1A/50 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°f (-30°c) | 0.95 ft·lb/in² | 2.0 kJ/m² | |
| 73°f (23°c) | 0.95 ft·lb/in² | 2.0 kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°f (-30°c) | 4.8 ft·lb/in² | 10 kJ/m² | |
| 73°f (23°c) | 8.6 ft·lb/in² | 18 kJ/m² | |
| **Hardness** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Ball Indentation Hardness (H 358/30) | 13500 psi | 93.0 MPa | ISO 2039-1 |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | |
| 66 Psi (0.45 Mpa), Unannealed | 248 °F | 120 °C | ISO 75-2/Bf |
| 264 Psi (1.8 Mpa), Unannealed | 162 °F | 72.0 °C | ISO 75-2/Af |
| Vicat Softening Temperature | 205 °F | 96.0 °C | ISO 306/B50 |
| **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) | 2.8 in/min | 70 mm/min | ISO 3795 |
| 0.0787 In (2.00 Mm) | 2.8 in/min | 70 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 | |

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

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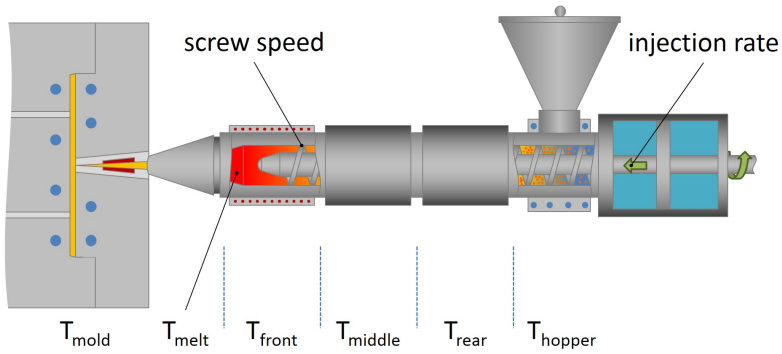


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 2.0 to 3.0 hr | 2.0 to 3.0 hr |
| Processing (Melt) Temp | 428 to 500 °F | 220 to 260 °C |
| Mold Temperature | 86 to 140 °F | 30 to 60 °C |

**Injection 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.