**Technical Data Sheet**

# POLYFORT® PPH MT20 FC

Polypropylene Homopolymer
Engineering Plastics

| Product Description |
|---|
| 20% talc filled PP-Homopolymer, suitable for food contact applications |

| General | |
|---|---|
| Filler / Reinforcement | • Talc, 20% Filler by Weight |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PP-T |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.06 g/cm³ | 1.06 g/cm³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 11 cm³/10min | 11 cm³/10min | ISO 1133 |
| Molding Shrinkage | 0.90 to 1.3 % | 0.90 to 1.3 % | ISO 294-4 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 377000 psi | 2600 MPa | ISO 527-2/1A/1 |
| Tensile Stress (Yield) | 4790 psi | 33.0 MPa | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 6.0 % | 6.0 % | 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) | 1.9 ft·lb/in² | 4.0 kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°F (-30°C) | 6.7 ft·lb/in² | 14 kJ/m² | |
| 73°F (23°C) | 18 ft·lb/in² | 38 kJ/m² | |
| **Hardness** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Ball Indentation Hardness (H 358/30) | 11900 psi | 82.0 MPa | ISO 2039-1 |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Heat Deflection Temperature | | | |
| 66 psi (0.45 MPa), Unannealed | 228 °F | 109 °C | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 136 °F | 58.0 °C | ISO 75-2/Af |
| Vicat Softening Temperature | | | |
| -- | 306 °F | 152 °C | ISO 306/A50 |
| -- | 183 °F | 84.0 °C | ISO 306/B50 |
| Ball Pressure Test (257°F (125°C)) | Pass | Pass | IEC 60695-10-2 |
| **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 | |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.06 in (1.5 mm) | 1340 °F | 725 °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) | 1380 °F | 750 °C | |
| 0.12 in (3.0 mm) | 1470 °F | 800 °C | |

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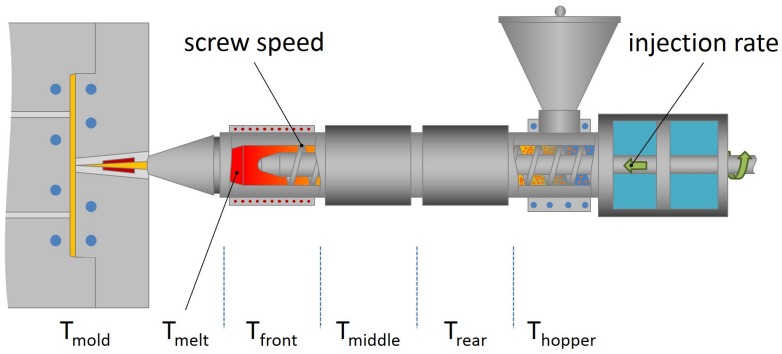


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 2.0 to 3.0 hr | 2.0 to 3.0 hr |
| Suggested Max Regrind | 20 % | 20 % |
| Processing (Melt) Temp | 446 to 518 °F | 230 to 270 °C |
| Mold Temperature | 104 to 158 °F | 40 to 70 °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.