Technical Data Sheet

POLYFORT® PPH GF30 U H3 Black 73570

Polypropylene Homopolymer
Engineering Plastics

Product Description
30% glass fiber reinforced PP-Homopolymer chemically coupled, UV-stabilized

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Chemically Coupled	• Homopolymer	• UV Stabilized
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.13 g/cm³	1.13 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	11 cm³/10min	11 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	943000 psi	6500 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	12300 psi	85.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.1 %	3.1 %	ISO 527-2/1A/5
Flexural Modulus [1]	957000 psi	6600 MPa	ISO 178
Flexural Stress [1] (3.5% Strain)	19400 psi	134 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in²	10 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	24 ft·lb/in²	50 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	17400 psi	120 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	307 °F	153 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	289 °F	143 °C	ISO 75-2/Af
Ball Pressure Test (293°F (145°C))	Pass	Pass	IEC 60695-10-2
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)	2.4 in/min	60 mm/min	ISO 3795
0.0787 in (2.00 mm)	2.4 in/min	60 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)	1430 °F	775 °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)	1470 °F	800 °C	
0.12 in (3.0 mm)	1470 °F	800 °C	

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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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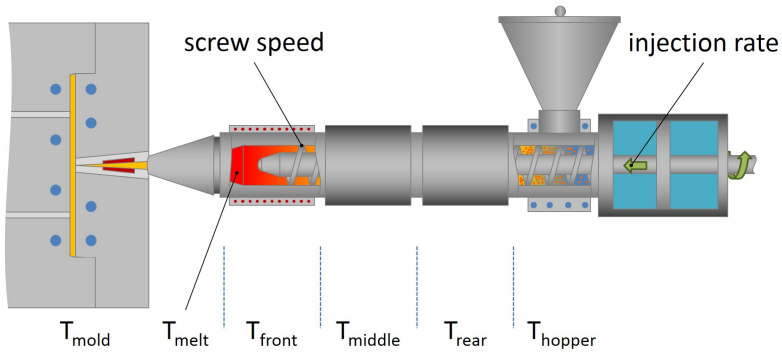

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 158 °F	40 to 70 °C

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.