

## Technical Data Sheet

**Polyfort FPP 30/10 GBGF BLK 968001**

Polypropylene, Homopolymer

**Product Description**

30% glass bead and glass fibre reinforced PP-Homopolymer with high stiffness and low warpage

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Stiffness; Homopolymer; Low Warpage
<b>Filler/Reinforcement</b>	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.0	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.12	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break, (Type 1A, 5 mm/min)	4.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	51.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3500	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	35	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	29	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	102	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	115	°C	ISO 306
(A (10N), 50 °C/h)	161	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	150	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	112	°C	ISO 75-2/A
<b>Electrical</b>			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
<b>Flammable</b>			

Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C