

## Technical Data Sheet

**Polyfort FPP 20 GFC NATURAL**

Polypropylene, Homopolymer

**Product Description**

20% chemical coupled glass fiber reinforced PP-Homopolymer

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Chemically Coupled; Homopolymer
<b>Filler/Reinforcement</b>	Glass Fiber, 20%

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)	1.05	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	68.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	4600	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	40	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	25	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness	100	MPa	ISO 2039-1
Ball Pressure Test, (130 °C)	Pass		IEC 60695-10-2
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	115	°C	ISO 306
(A (10N), 50 °C/h)	160	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	153	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	136	°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>			

<b>Burning Rate</b>			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
<b>UL Information</b>			
<b>Flammability Classification</b>			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Injection Rate	Moderate-Fast	
Mold Temperature	30 to 60	°C