

## Technical Data Sheet

### *Polyfort* FPP5B20CCNANAT



Polypropylene, Homopolymer

#### Product Description

*Polyfort* FPP5B20CCNANAT is a Polypropylene Homopolymer Glass Fiber, 20% filled material and is typically used in Injection Molding applications. Features include: Homopolymer, and Ultra High Impact Resistance.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Homopolymer; Ultra High Impact Resistance
<b>Forms</b>	Pellets
<b>Filler/Reinforcement</b>	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate	9.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (23 °C)	42.7	MPa	ASTM D638
Flexural Modulus, (Tangent)	2830	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact	3.95	J	ASTM D3029
Notched Izod Impact, (23 °C, 3.18 mm)	210	J/m	ASTM D256
<b>Hardness</b>			
Durometer Hardness, (Shore D)	72		ASTM D2240
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	113	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	124	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Screw Speed	20 to 60	rpm
Processing (Melt) Temp	199 to 243	°C
Front Temperature	199 to 243	°C
Middle Temperature	199 to 243	°C
Rear Temperature	199 to 243	°C
Injection Rate	Moderate	
Back Pressure	<0.345	MPa
Mold Temperature	16 to 66	°C
Cushion	6.35 to 12.7	mm