

Technical Data Sheet

Polyfort FPP3B30HBBK



Polypropylene, Homopolymer

Product Description

FPP3B30HBBK is a 30% Glass-Reinforced, Heat-Stabilized Polypropylene

Processing Method Injection Molding

Attribute Homopolymer

Forms Pellets

Filler/Reinforcement Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate	8.7	g/10 min	ASTM D1238
Density - Specific Gravity	1.14	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield	11	%	ASTM D638
Tensile Strength at Yield, (23 °C)	64.1	MPa	ASTM D638
Flexural Modulus, (Tangent)	4700	MPa	ASTM D790
Impact			
Gardner Impact	1.69	J	ASTM D3029
Notched Izod Impact, (23 °C, 3.18 mm)	160	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	143	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	157	°C	ASTM D648
UL Information			
Flame Rating, (UL 94)	HB		UL 94

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