Technical Data Sheet

Polyfort FPP 20 GFM HI HH BLK

Polypropylene, Homopolymer

Product Description

20% milled glass fibre PP homopolymer, impact modified, heat stabilized

Processing Method	Injection Molding
Attribute	Heat Stabilized; Homopolymer; Impact Modified
Additive	Heat Stabilizer; Impact Modifier
Filler/Reinforcement	Milled Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	3.5	cm³/10 min	ISO 1133
Density, (Method A)	1.07	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	31.0	MPa	ISO 527-2
Tensile Strain at Break, (Type 1A, 5 mm/min)	54	%	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	6.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2900	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	30	kJ/m²	ISO 179
Notched Izod Impact (Area), (23 °C)	9.00	kJ/m²	ASTM D256
Hardness			
Ball Indentation Hardness, (H 358/30)	81.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	73.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	121	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	70.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

Additional Information			
Water Absorption 23C/50RH	0.03	%	ISO 62
UL Information			
Flammability Classification, (1.5 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