HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Technical Data Sheet

Polyfort FPP 10 GFC C1 NAT

Polypropylene, Homopolymer

Product Description

10% glass fibre reinforced PP-Homopolymer chemically coupled

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 10%
Resin ID	PP H 10GFC

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	8.0	cm³/10 min	ISO 1133
Density, (Method A)	0.970	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	50.0	MPa	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2480	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	4.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2810	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	58.0	MPa	ISO 178
(2.0 mm/min, 6.0%)	67.5	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	37	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	115	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	110	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

Injection Parameters	Nominal Value	Units
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