Technical Data Sheet

Polyfort FPP 20/10 TGF NAT

Polypropylene, Homopolymer

Product Description

10% glass fibre and 10% talc filled PP homopolymer with high strength and low warpage.

Processing Method	Injection Molding
Attribute	High Strength; Homopolymer; Low Warpage
Filler/Reinforcement	Glass Fiber, 10%; Talc, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	7.0	cm³/10 min	ISO 1133
Density, (Method A)	1.05	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	6.0	%	ISO 527-2
Flexural Modulus	4000	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	43.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3600	MPa	ISO 527-1
Flexural Stress	80	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	40	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	25	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	105	°C	ISO 306
(A (10N), 50 °C/h)	160	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	145	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	115	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*cm	IEC 60093
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
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