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Technical Data Sheet

Polyfort FPP 35 GFC LM CS1 BLK

Polypropylene, Homopolymer

Product Description

35 % glass fiber reinforced PP-Homopolymer, long term heat stabilized

Processing Method	Injection Molding
Attribute	Chemically Coupled; Copper Contact Stabilized; Homopolymer
Filler/Reinforcement	Glass Fiber, 35%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.0	cm³/10 min	ISO 1133
Density, (Method A)	1.16	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	90.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	7600	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	9.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	48	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	45	kJ/m²	ISO 179
Hardness			
Ball Pressure Test, (145 °C)	Pass		IEC 60695-10-2
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	159	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	145	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	60	mm/min	FMVSS 302
(2.00 mm)	60	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	750	°C	IEC 60695-2-12
(3.0 mm)	750	°C	IEC 60695-2-12

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Glow Wire Ignition Temperature			
(1.5 mm)	775	°C	IEC 60695-2-13
(3.0 mm)	775	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 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
Injection Rate	Moderate-Fast	
Mold Temperature	30 to 60	°C