

Technical Data Sheet

Polyfort FPP30GFCK1079SN BLKROE

Polypropylene, Homopolymer

Product Description

30 % glass fibre reinforced PP-Homopolymer, long term heat stabilized, low emission.

Processing Method	Injection Molding
Attribute	Chemically Coupled; Heat Stabilized; Homopolymer
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.13	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	6000	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	85.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	6500	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.6%)	126	MPa	ISO 178
(2.0 mm/min, 3.4%)	128	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	48	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	45	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	128	MPa	ISO 2039-1
Ball Pressure Test, (145 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	130	°C	ISO 306
(A (10N), 50 °C/h)	165	°C	ISO 306
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

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)	58	mm/min	ISO 3795
(2.00 mm)	58	mm/min	FMVSS 302
Glow Wire Flammability Index			
(1.5 mm)	725	°C	IEC 60695-2-12
(3.0 mm)	750	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm, Passes)	750	°C	IEC 60695-2-13
(3.0 mm, Passes)	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