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

Technical Data Sheet

Polyfort FIPP 15 GFC BM K2258 BLK

Polypropylene Copolymer

Product Description

15% glass fibre reinforced PP copolymer compound; chemically coupled; blow molding grade; contains metal deactivator; heat stabilised

Processing Method	Blow Molding; Extrusion; Injection Molding
Filler/Reinforcement	Glass Fiber, 15%
Resin ID	PP-C 15 GFC BM

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	1.0	cm³/10 min	ISO 1133
Density, (Method A)	1.01	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	11	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2600	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	35.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3050	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	51.0	MPa	ISO 178
(2.0 mm/min, 6.0%)	57.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	18	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	52	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	40	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/10)	70.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	81.0	°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)	100	°C	ISO 75-2/A
Electrical			

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