Technical Data Sheet

Polyfort FIPP 30T K1005 BLK

Polypropylene Copolymer

Product Description

30% talc filled PP-Copolymer; long term heat stabilized

Processing Method	Injection Molding
Filler/Reinforcement	Talc, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	6.0	cm³/10 min	ISO 1133
Density, (Method A)	1.13	g/cm³	ISO 1183
Mechanical			
Flexural Strain at Flexural Strength	4.6	%	ISO 178
Tensile Stress at Yield, (Type 1A, 50 mm/min)	27.0	MPa	ISO 527-2
Flexural Modulus	3250	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.5	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2800	MPa	ISO 527-1
Flexural Stress	45	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	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)	55	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	19	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	78.0	MPa	ISO 2039-1
Ball Pressure Test, (125 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	65.0	°C	ISO 306
(A (10N), 50 °C/h)	143	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	110	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	68.0	°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)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
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
Mold Temperature	30 to 60	°C