

Technical Data Sheet

Polyfort FPP 40TF K2089 BLK

Polypropylene, Homopolymer

Product Description

40% talc filled PP homopolymer, easy flow

Processing Method	Injection Molding
Attribute	Good Flow; Homopolymer
Filler/Reinforcement	Talc, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	16	cm ³ /10 min	ISO 1133
Density, (Method A)	1.27	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	27.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3100	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	2.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	2.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	18	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	10	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	93.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	96.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	120	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	72.0	°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)	70	mm/min	FMVSS 302
(2.00 mm)	70	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
Mold Temperature	30 to 60	°C
