Technical Data Sheet

Polyfort FIP 40MA K1544 WHI08442

Polypropylene, Homopolymer

Product Description

40 % mineral filled PP Homopolymer, antistatic

Processing Method	Injection Molding
Attribute	Homopolymer
Additive	Antistatic
Filler/Reinforcement	Mineral, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	25	cm³/10 min	ISO 1133
Density, (Method A)	1.26	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	25.0	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)	2600	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	35	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	82.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	96.0	°C	ISO 306
(A (10N), 120 °C/h)	152	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	93.0	°C	ISO 75-2/B
Electrical			
Volume Resistivity	>1.0E+13	ohm*cm	IEC 60093
Surface Resistivity	>1.0E+15	ohm	IEC 60093

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