

Technical Data Sheet

Polyfort FPP 20T K1534 NAT

Polypropylene, Homopolymer

Product Description

20 % talc filled PP Homopolymer

Processing Method Injection Molding

Attribute Food Contact Acceptable; Homopolymer

Filler/Reinforcement Talc, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	5.8	g/10 min	ISO 1133
Melt Volume Flow Rate, (230 °C/2.16 kg)	7.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.05	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	33.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	5.5	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2700	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	43	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	17	kJ/m ²	ISO 179
Notched Izod Impact Strength, (23 °C, Type 1, Notch A)	3.0	kJ/m ²	ISO 180
Notched Izod Impact (Area), (23 °C)	4.00	kJ/m ²	ASTM D256
Hardness			
Ball Indentation Hardness, (H 358/30)	73.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	70.0	°C	ISO 306
(A (10N), 120 °C/h)	155	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	105	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	65.0	°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	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Flammability Index	750	°C	IEC 60695-2-12
Additional Information			
Water Absorption 23C/50RH	0.2	%	ISO 62
UL Information			
Flammability Classification, (1.5 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