Technical Data Sheet

Polyfort FPP 1151E-31 40 BLKBLK

Polypropylene, Unspecified (PP, Unspecified)

Product Description

Extrusion grade, 40% calcium carbonate filled, high molecular weight polypropylene.

Processing Method	Extrusion; Injection Molding
Filler/Reinforcement	Calcium Carbonate, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	0.30 to 0.60	g/10 min	ISO 1133
(230 °C/2.16 kg)	0.30 to 0.60	g/10 min	ASTM D1238
Melt Volume Flow Rate, (230 °C/2.16 kg)	0.30 to 0.60	cm³/10 min	ASTM D1238
Density - Specific Gravity	1.26	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield, (50 mm/min, 23 °C)	24.0	MPa	ASTM D638
Tensile Stress at Yield, (23 °C, 50 mm/min)	25.0	MPa	ISO 527-2
Flexural Modulus			
(1.3 mm/min, 23 °C, Tangent)	2300	MPa	ASTM D790
(23 °C, 2.0 mm/min, Tangent)	2800	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Injection Molded)	10	kJ/m²	ISO 179
Notched Izod Impact Strength, (23 °C, Injection Molded)	10	kJ/m²	ISO 180
Notched Izod Impact, (23 °C, Injection Molded)	130	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	88		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa)	62	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	58	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	100	°C	ASTM D648
Additional Information			
Filler Content	40	%	ASTM D5630

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