

Technical Data Sheet

**Polyfort FPP 3790-032 GRY**



Polypropylene, Unspecified (PP, Unspecified)

**Product Description**

PP compound with 40% talc filler. Long term heat stabilized.

**Processing Method** Injection Molding

**Filler/Reinforcement** Talc, 40%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (230 °C/2.16 kg)	11	cm <sup>3</sup> /10 min	ISO 1133
Density	1.25	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break	3.8	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Tensile Stress at Break	25	MPa	ISO 527-2
Tensile Modulus	4500	MPa	ISO 527-1
Flexural Stress, (7.0%)	20.0	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	2.3	kJ/m <sup>2</sup>	ISO 179
(-30 °C)	1.7	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(-30 °C)	10	kJ/m <sup>2</sup>	ISO 179
(23 °C)	15	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (0.45 MPa)	130	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	74	°C	ISO 75-2/A
<b>Electrical</b>			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 62631-3-2
<b>Flammable</b>			
Burning Rate, (2.00 mm)	50	mm/min	ISO 3795
<b>Additional Information</b>			
Filler Content	40	%	ASTM D5630
<b>UL Information</b>			

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Flammability Classification

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(0.8 mm)	HB	IEC 60695-11-10, - 20
(1.6 mm)	HB	IEC 60695-11-10, - 20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
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

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