

GAPEX® RPP30EA18BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Primary use is for battery tray supports.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Thermal Stability		
Uses	Bracket tray		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13	g/cm ³	ASTM D792
--	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	4.0	g/10 min	ASTM D1238
230°C/2.16 kg	3.8	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	72.4	MPa	ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus			
--	5170	MPa	ASTM D790
--	4900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	48	J/m	ASTM D256
23°C	65	J/m	ASTM D256
-40°C	4.8	kJ/m ²	ISO 180
23°C	6.8	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	530	J/m	ASTM D256
Dart Drop Impact	0.565	J	ASTM D3029

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	163	°C	ASTM D648
0.45 MPa, not annealed	152	°C	ISO 75-2/B
1.8 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	139	°C	ISO 75-2/A

Additional Information

Filler Content, ISO 3451/1: 30.2%Tensile Change, ISO 188, 1000 hrs, 140°C: +12%Izod Change, ISO 188, 1000 hrs, 140°C: +12/-5%

Injection	Nominal Value	Unit
Drying Temperature	71.1 - 82.2	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	221 - 238	°C
Middle Temperature	227 - 243	°C
Front Temperature	232 - 260	°C
Nozzle Temperature	232 - 260	°C
Processing (Melt) Temp	221 - 238	°C
Mold Temperature	37.8 - 65.6	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 - 0.345	MPa
Cushion	5.08 - 12.7	mm

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