

GAPEX® RPP30EA23BK

Polypropylene

Ferro Corporation

Message:

GAPEX® RPP30EA23BK is a Polypropylene material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Typical application of GAPEX® RPP30EA23BK: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength (Yield)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D256
Gardner Impact	0.565	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	149	°C	
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	221 to 238	°C	
Middle Temperature	227 to 243	°C	
Front Temperature	232 to 260	°C	
Nozzle Temperature	232 to 260	°C	
Processing (Melt) Temp	221 to 238	°C	

Mold Temperature	37.8 to 65.6	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 to 0.345	MPa
Cushion	5.08 to 12.7	mm

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Recommended distributors for this material

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