

GAPEX® RPP20ER

Polypropylene

Ferro Corporation

Message:

GAPEX® RPP20ER is a Polypropylene material filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of GAPEX® RPP20ER: Impact Resistant.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Impact Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	48.3	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength (Yield)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	370	J/m	ASTM D256
Gardner Impact	0.791	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	143	°C	
1.8 MPa, Unannealed	121	°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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

