

GAPEX® RPP20EA HB

Polypropylene
Ferro Corporation

Message:

GAPEX® RPP20EA HB is a Polypropylene material filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of GAPEX® RPP20EA HB are:

Flame Rated

Chemically Coupled

Homopolymer

Low Shrinkage

Typical applications include:

Appliances

Automotive

Housings

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled		
	Homopolymer		
	Low Shrinkage		
Uses	Appliances		
	Automotive Applications		
	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.3	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	45.5	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	2850	MPa	ASTM D790
Flexural Strength (Yield)	65.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Unnotched Izod Impact (23°C)	210	J/m	ASTM D256
Gardner Impact (3.18 mm)	0.226	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	149	°C
1.8 MPa, Unannealed	127	°C
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
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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