

GAPEX® HT RNP43

Polyamide + PP

Ferro Corporation

Message:

GAPEX® HT RNP43 is a Polyamide + PP (Nylon+PP) material filled with 43% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,43% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	138	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	9790	MPa	ASTM D790
Flexural Strength (Yield)	212	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Unnotched Izod Impact (23°C)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	213	°C	
1.8 MPa, Unannealed	196	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	288 to 296	°C	
Middle Temperature	288 to 296	°C	
Front Temperature	291 to 296	°C	
Nozzle Temperature	296 to 302	°C	
Mold Temperature	82.2 to 104	°C	
Back Pressure	0.345 to 0.689	MPa	

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