

GAPEX® RPP20DA03NA

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®RPP20DA03NA is a polypropylene homopolymer (PP Homopoly) material, and its filler is 20% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

GAPEX®The main features of the RPP20DA03NA are:

Homopolymer

heat stabilizer

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	Homopolymer		
	Thermal Stability		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	4.0	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	64.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	3630	MPa	ASTM D790
Tangent: 23°C	3760	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	92.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Unnotched Izod Impact (23°C)	330	J/m	ASTM D256
Dart Drop Impact	0.282	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	154	°C	ASTM D648
1.8 MPa, not annealed	143	°C	ASTM D648
Additional Information			
Filler Content, ASTM D2584: 20%			
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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