

GAPEX® RPP25DZ02NA

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®RPP25DZ02NA is a polypropylene homopolymer (PP Homopoly) material, which contains 25% glass beads \glass fibers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

General Information			
Filler / Reinforcement	Glass Beads \Glass Fiber, 25% Filler by Weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.60	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	43.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	2700	MPa	ASTM D790
Tangent: 23°C	2830	MPa	ASTM D790
Flexural Strength (23°C)	66.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Unnotched Izod Impact (23°C)	230	J/m	ASTM D256
Dart Drop Impact (23°C)	0.339	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	152	°C	ASTM D648
1.8 MPa, not annealed	124	°C	ASTM D648
Additional Information			
The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.Filler Content, ASTM D2584: 25.0%Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.			
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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