

GAPEX® RPP30EA16NA

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®RPP30EA16NA is a polypropylene homopolymer (PP Homopoly) material, and its filler is 31% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

GAPEX®The main features of the RPP30EA16NA are:

Chemical coupling

Homopolymer

heat stabilizer

GAPEX®The typical application fields of RPP30EA16NA are: automobile industry

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 31% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Homopolymer		
	Thermal Stability		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.15	g/cm ³	ASTM D792
--	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	3.0	g/10 min	ASTM D1238
230°C/2.16 kg	3.5	g/10 min	ISO 1133
Molding Shrinkage			
Flow	0.40	%	ASTM D955
Vertical flow direction	0.60	%	ISO 294-4
Flow direction	0.60	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	82.7	MPa	ASTM D638
Yield, 23°C	82.8	MPa	ISO 527-2

Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus			
--	4210	MPa	ASTM D790
--	5200	MPa	ISO 178
Flexural Strength (Yield)	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
-40°C	5.5	kJ/m ²	ISO 180
23°C	8.0	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	640	J/m	ASTM D256
Dart Drop Impact	0.565	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	163	°C	ASTM D648
0.45 MPa, not annealed	158	°C	ISO 75-2/B
1.8 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	150	°C	ISO 75-2/A
Additional Information			
Tensile/Izod Change, 1,000 hrs @ 140°C, ISO 188: +10/-2			
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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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



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