

GAPEX® RPP10EA54NA

Polypropylene

Ferro Corporation

Message:

GAPEX®RPP10EA54NA is a polypropylene material, and the filler is 10% 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 RPP10EA54NA are:

Chemical coupling

heat stabilizer

GAPEX®The typical application fields of RPP10EA54NA are: automobile industry

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Thermal Stability		
Uses	Parts under the hood of a car		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.8	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.80	%	ASTM D955
Transverse flow	0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	50.8	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant ¹	2610	MPa	ASTM D790
Flexural Strength (23°C)	49.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	330	J/m	ASTM D256
Dart Drop Impact	0.790	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	125	°C	ASTM D648

Additional Information

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812. Tensile Retention, 500 hrs, 150°C, ASTM D573: 52 hrs.

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

NOTE

1. 1.3 mm/min

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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

