

GAPEX® RPP20EA11BK

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®RPP20EA11BK 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. The processing method is injection molding. GAPEX®The main characteristics of the RPP20EA11BK are: chemical coupling.

GAPEX®The typical application fields of RPP20EA11BK are: automobile industry

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Chemical coupling		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.50	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	64.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C ¹	3660	MPa	ASTM D790
Tangent: 23°C	3760	MPa	ASTM D790
Flexural Strength (23°C)	93.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Unnotched Izod Impact (23°C)	430	J/m	ASTM D256
Dart Drop Impact	0.339	J	ASTM D5420
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	142	°C	ASTM D648
Additional Information			
The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.			
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

