

# GAPEX® RPP20EA10BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Primary use is for structural or semi-structural applications, such as fender aprons.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Thermal Stability		
Uses	Components		
	Application in Automobile Field		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	56.4	MPa	ASTM D638
Flexural Modulus	3600	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	56	J/m	ASTM D256
Unnotched Izod Impact (23°C)	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	155	°C	ASTM D648
1.8 MPa, not annealed	139	°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

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#### Recommended distributors for this material

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