

GAPEX® RPP40EV03BK

Polypropylene

Ferro Corporation

Message:

GAPEX®RPP40EV03BK is a polypropylene material, and the filler is 40% 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 RPP40EV03BK are:

Impact modification

Chemical coupling

heat stabilizer

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	Impact modifier heat stabilizer		
Features	Impact modification Chemical coupling Thermal Stability		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	1.1	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	75.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	6000	MPa	ASTM D790
Tangent: 23°C	6380	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	113	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D256
Dart Drop Impact	0.452	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648

1.8 MPa, not annealed	143	°C	ASTM D648
Additional Information			
Filler Content, ASTM D2584: 40%			
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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