

GAPEX® HP RPP10EC14WH

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®HP RPP10EC14WH is a polypropylene homopolymer (PP Homopoly) material, and its 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 HP RPP10EC14WH are:

Chemical coupling

Homopolymer

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Chemical coupling		
	Homopolymer		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.70	%	ASTM D955
Transverse flow	1.1	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	57.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.5	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	2830	MPa	ASTM D790
Tangent: 23°C	2920	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	86.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Unnotched Izod Impact (23°C)	400	J/m	ASTM D256
Dart Drop Impact	0.395	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	149	°C	ASTM D648
Additional Information			
Filler Content, ASTM D2584: 13.5%			
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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