

FERREX® GPP20YJ14BK

Polypropylene Homopolymer

Ferro Corporation

Message:

FERREX® GPP20YJ14BK is a Polypropylene Homopolymer (PP Homopolymer) material filled with 20% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of FERREX® GPP20YJ14BK are:

High Gloss

Homopolymer

General Information			
Filler / Reinforcement	Calcium Carbonate,20% Filler by Weight		
Features	High Gloss		
	Homopolymer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.4	%	
Across Flow	1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	30.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	20	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	1940	MPa	
Tangent : 23°C	2160	MPa	
Flexural Strength (23°C)	47.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Unnotched Izod Impact (23°C)	570	J/m	ASTM D4812
Gardner Impact (23°C)	3.39	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	113	°C	
1.8 MPa, Unannealed	62.8	°C	

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