FERREX® GPP20CN05HB-WH

Polypropylene Homopolymer

Ferro Corporation

Message:

FERREX® GPP20CN05HB-WH is a Polypropylene Homopolymer (PP Homopolymer) material filled with 22% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of FERREX® GPP20CN05HB-WH are:
High Gloss
Homopolymer
Impact Resistant
Typical applications include:
Automotive
Coating Applications

General Information			
Filler / Reinforcement	Calcium Carbonate,22% Filler by Weight		
Features	Good Impact Resistance High Gloss Homopolymer		
Uses	Automotive Exterior Parts Protective Coverings		
Appearance	White		
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)	25	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.4	%	
Across Flow	1.7	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (23°C)	17.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	90	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	979	MPa	
Tangent : 23°C	1100	MPa	
Flexural Strength (23°C)	25.5	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C)	150	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Gardner Impact (23°C)	27.3	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	54.4	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	199 to 204	°C	
Middle Temperature	204 to 210	°C	
Front Temperature	210 to 216	°C	
Nozzle Temperature	216 to 221	°C	
Mold Temperature	46.1 to 60.0	°C	
Back Pressure	0.138 to 0.345	MPa	
Screw Speed	100 to 150	rpm	
Clamp Tonnage	2.8 to 4.1	kN/cm^2	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.0:1.0		

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