FERREX® GPP20CK03HB-NA

Polypropylene

Ferro Corporation

Message:

FERREX® GPP20CK03HB-NA is a Polypropylene material filled with 20% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of FERREX® GPP20CK03HB-NA: High Gloss.

General Information			
Filler / Reinforcement	Calcium Carbonate,20% Filler by Weight		
Features	High Gloss		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Flexural Strength (Yield)	37.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Gardner Impact	28.8	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	104	°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/cm²	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.0:1.0		

Recommended distributors for this material

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