

# FERREX® GPP20CK HB-BK

Polypropylene  
Ferro Corporation

Message:

FERREX® GPP20CK HB-BK is a Polypropylene material filled with 20% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of FERREX® GPP20CK HB-BK are:

Flame Rated  
High Gloss  
Impact Resistant

Typical applications include:

Coating Applications  
Handles  
Household Applications

General Information			
Filler / Reinforcement	Calcium Carbonate,20% Filler by Weight		
Features	Good Impact Resistance		
	High Gloss		
Uses	Handles		
	Lawn and Garden Equipment		
	Protective Coverings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Break)	36	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Flexural Strength (Yield)	30.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Gardner Impact (3.18 mm)	22.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	87.8	°C
1.8 MPa, Unannealed	54.4	°C
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
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 <sup>2</sup>
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.0:1.0	

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#### Recommended distributors for this material

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