

# FERREX® GPP20CF64UL-WH

Polypropylene Homopolymer

Ferro Corporation

Message:

FERREX® GPP20CF64UL-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® GPP20CF64UL-WH are:

- Flame Rated
- Good Processability
- High Gloss
- Homopolymer
- Typical applications include:
  - Appliances
  - Handles
  - Housings

General Information			
Filler / Reinforcement	Calcium Carbonate,22% Filler by Weight		
Features	Good Processability		
	High Gloss		
	Homopolymer		
Uses	Appliances		
	Handles		
	Housings		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.6	%	
Across Flow	1.9	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	29.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	40	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	1810	MPa	
Tangent : 23°C	2000	MPa	

Flexural Strength (23°C)	46.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Unnotched Izod Impact (23°C)	890	J/m	ASTM D4812
Gardner Impact (23°C)	3.95	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	60.0	°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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