

FERREX® GPP20CS14UL-BK

Polypropylene Copolymer

Ferro Corporation

Message:

FERREX® GPP20CS14UL-BK is a Polypropylene Copolymer (PP Copolymer) material filled with 21% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of FERREX® GPP20CS14UL-BK are:

Heat Stabilizer

High Gloss

Impact Resistant

Typical applications include:

Household Applications

Housings

General Information			
Filler / Reinforcement	Calcium Carbonate,21% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Impact Resistance		
	Heat Stabilized		
	High Gloss		
Uses	Housings		
	Lawn and Garden Equipment		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	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	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	17.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	130	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	1050	MPa	
Tangent : 23°C	1190	MPa	
Flexural Strength (23°C)	26.2	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1200	J/m	ASTM D4812
Gardner Impact (23°C)	31.6	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	87.8	°C	
1.8 MPa, Unannealed	51.7	°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		

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