

FERREX® GPP30CC38UL GRAY

Polypropylene Homopolymer

Ferro Corporation

Message:

FERREX® GPP30CC38UL GRAY is a Polypropylene Homopolymer (PP Homopolymer) material filled with 32% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of FERREX® GPP30CC38UL GRAY are:

High Gloss

Homopolymer

General Information			
Filler / Reinforcement	Calcium Carbonate,32% Filler by Weight		
Features	High Gloss		
	Homopolymer		
Appearance	Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.4	%	
Across Flow	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	26.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	35	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	2060	MPa	
Tangent : 23°C	2360	MPa	
Flexural Strength (23°C)	42.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1300	J/m	ASTM D4812
Gardner Impact (23°C)	11.5	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	65.6	°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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