

FERREX® GPP35CS33UL-BK

Polypropylene

Ferro Corporation

Message:

FERREX® GPP35CS33UL-BK is a Polypropylene material filled with 36% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of FERREX® GPP35CS33UL-BK are:

High Gloss

Impact Modified

Impact Resistant

Typical applications include:

Housings

Household Applications

General Information			
Filler / Reinforcement	Calcium Carbonate,36% Filler by Weight		
Additive	Impact Modifier		
Features	Good Impact Resistance		
	High Gloss		
	Impact Modified		
Uses	Electrical Housing		
	Housings		
	Lawn and Garden Equipment		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.2	%	
Across Flow	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	19.3	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	150	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	1480	MPa	
Tangent : 23°C	1660	MPa	

Flexural Strength (23°C)	33.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	610	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Gardner Impact (23°C, 3.18 mm)	18.6	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	96.1	°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/cm ²	
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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