

# Ferro PP CPP45GH02AL

Polypropylene  
Ferro Corporation

Message:

Ferro PP CPP45GH02AL is a Polypropylene material filled with 45% mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP CPP45GH02AL are:

Good Dimensional Stability  
Impact Resistant  
Low Shrinkage

General Information			
Filler / Reinforcement	Mineral,45% Filler by Weight		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Low Shrinkage		
Appearance	Aluminum		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength (Yield)	42.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Unnotched Izod Impact (23°C)	310	J/m	ASTM D256
Gardner Impact	5.65	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	123	°C	
1.8 MPa, Unannealed	73.3	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	

Drying Time	2.0 to 3.0	hr
Rear Temperature	202 to 204	°C
Middle Temperature	204 to 210	°C
Front Temperature	210 to 213	°C
Nozzle Temperature	213 to 218	°C
Mold Temperature	43.3 to 51.7	°C
Back Pressure	0.345 to 0.689	MPa

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#### Recommended distributors for this material

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