

Technical Data Sheet
Ferro PP CPP45GH02AL
 Polypropylene
 Engineering Plastics



General

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 (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.32	1.32 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 g/10 min	16 g/10 min	ASTM D1238
Molding Shrinkage - Flow	8.0E-3 in/in	0.80 %	ASTM D955

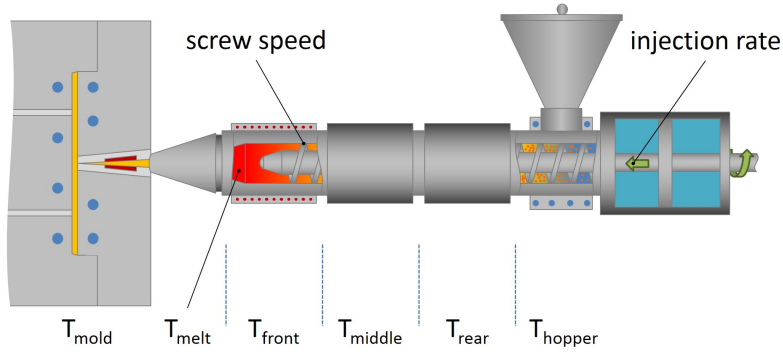
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation (Break)	10 %	10 %	ASTM D638
Flexural Modulus	420000 psi	2900 MPa	ASTM D790
Flexural Strength (Yield)	6200 psi	42.7 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.40 ft·lb/in	21 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	5.8 ft·lb/in	310 J/m	ASTM D256
Gardner Impact	50.0 in·lb	5.65 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	73	73	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	253 °F	123 °C	
264 psi (1.8 MPa), Unannealed	164 °F	73.3 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	395 to 400 °F	202 to 204 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	410 to 415 °F	210 to 213 °C
Nozzle Temperature	415 to 425 °F	213 to 218 °C
Mold Temperature	110 to 125 °F	43 to 52 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Notes

These are typical property values not to be construed as specification limits.