

# Ferro PP TPP20AE03UL-WH

Polypropylene  
Ferro Corporation

Message:

Ferro PP TPP20AE03UL-WH is a Polypropylene material filled with 20% talc. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP TPP20AE03UL-WH are:

Flame Rated

Homopolymer

Typical applications include:

Appliances

Handles

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Homopolymer		
Uses	Appliance Components		
	Appliances		
	Handles		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.2	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength (Yield)	56.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Unnotched Izod Impact (23°C)	960	J/m	ASTM D256
Gardner Impact (3.18 mm)	2.26	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	127	°C	
1.8 MPa, Unannealed	76.7	°C	

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94

Injection	Nominal Value	Unit
Drying Temperature	93.3	°C
Drying Time	2.0 to 3.0	hr
Rear Temperature	204 to 210	°C
Middle Temperature	210 to 213	°C
Front Temperature	213 to 216	°C
Nozzle Temperature	216 to 218	°C
Mold Temperature	43.3 to 54.4	°C
Back Pressure	0.138 to 0.345	MPa
Screw Speed	100 to 150	rpm
Clamp Tonnage	2.8 to 4.1	kN/cm <sup>2</sup>
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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