

# Ferro PP TPP10AE14NA

Polypropylene Homopolymer

Ferro Corporation

## Message:

Ferro PP TPP10AE14NA is a polypropylene homopolymer (PP Homopoly) material, which contains 12% talc filler. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding. The main characteristics of Ferro PP TPP10AE14NA are: homopolymer.

General Information			
Filler / Reinforcement	Talc filler, 12% filler by weight		
Features	Homopolymer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.988	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	36.5	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	2000	MPa	ASTM D790
Tangent: 23°C	2280	MPa	ASTM D790
Flexural Strength (23°C)	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	121	°C	ASTM D648
1.8 MPa, not annealed	82.2	°C	ASTM D648
Additional Information			
The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.			
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	204 - 210	°C	

Middle Temperature	210 - 213	°C
Front Temperature	213 - 216	°C
Nozzle Temperature	216 - 218	°C
Mold Temperature	43.3 - 54.4	°C
Back Pressure	0.138 - 0.345	MPa
Screw Speed	100 - 150	rpm
Clamp Tonnage	2.8 - 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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