

FERROPAK® TPP40WA04NA

Polypropylene

Ferro Corporation

Message:

FERROPAK® TPP40WA04NA is a Polypropylene material filled with 41% talc. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of FERROPAK® TPP40WA04NA: Homopolymer.

General Information			
Filler / Reinforcement	Talc,41% Filler by Weight		
Features	Homopolymer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.90	%	
Across Flow	1.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.9	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	3850	MPa	
Tangent	5120	MPa	
Flexural Strength (Yield)	63.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Unnotched Izod Impact	250	J/m	ASTM D256
Gardner Impact	1.86	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	143	°C	
1.8 MPa, Unannealed	104	°C	
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 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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