

Ferro PP TPP20AJ01BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Ferro PP TPP20AJ01BK is a Polypropylene Homopolymer (PP Homopolymer) material filled with 20% talc. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of Ferro PP TPP20AJ01BK are:

Good Dimensional Stability

Good Processability

Homopolymer

Typical applications include:

Automotive

Engineering/Industrial Parts

Housings

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Dimensional Stability		
	Good Processability		
	Homopolymer		
Uses	Automotive Applications		
	Housings		
	Thin-walled Parts		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.4	%	
Across Flow	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Durometer Hardness (Shore D)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	33.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	12	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	2650	MPa	
Tangent : 23°C	2940	MPa	

Flexural Strength (23°C)	54.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Unnotched Izod Impact (23°C)	420	J/m	ASTM D4812
Gardner Impact (23°C)	0.565	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	129	°C	
1.8 MPa, Unannealed	71.1	°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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