

Ferro PP TPP20AC15HB-BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Ferro PP TPP20AC15HB-BK 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 for injection molding.

Important attributes of Ferro PP TPP20AC15HB-BK are:

Heat Stabilizer

Homopolymer

Typical applications include:

Automotive

Coating Applications

Housings

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	General Purpose		
	Heat Stabilized		
	Homopolymer		
Uses	Automotive Applications		
	Housings		
	Protective Coverings		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.4	%	
Across Flow	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	31.7	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	15	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	2200	MPa	
Tangent : 23°C	2560	MPa	

Flexural Strength (23°C)	51.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Unnotched Izod Impact (23°C)	460	J/m	ASTM D4812
Gardner Impact (23°C)	0.678	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
1.8 MPa, Unannealed	69.4	°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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