

Ferro PP TPP40AC86BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Ferro PP TPP40AC86BK is a Polypropylene Homopolymer (PP Homopolymer) material filled with 37% talc. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP TPP40AC86BK are:

Heat Stabilizer

Homopolymer

General Information			
Filler / Reinforcement	Talc,37% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Homopolymer		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.0	%	
Across Flow	1.3	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	31.7	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	2730	MPa	
Tangent : 23°C	3600	MPa	
Flexural Strength (23°C)	49.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Unnotched Izod Impact (23°C)	230	J/m	ASTM D4812
Gardner Impact (23°C)	0.508	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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