

Ferro PP MPP40FJ15NA

Polypropylene Homopolymer

Ferro Corporation

Message:

Ferro PP MPP40FJ15NA is a Polypropylene Homopolymer (PP Homopolymer) material filled with 41% mica. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP MPP40FJ15NA are:

Chemically Coupled

Creep Resistant

Good Dimensional Stability

Homopolymer

Typical application of Ferro PP MPP40FJ15NA: Appliances

General Information			
Filler / Reinforcement	Mica,41% Filler by Weight		
Features	Chemically Coupled		
	Good Creep Resistance		
	Good Dimensional Stability		
	Homopolymer		
Uses	Appliance Components		
	Appliances		
Appearance	Natural Color		
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)	13	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.90	%	
Across Flow	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	33.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	3580	MPa	
Tangent : 23°C	5140	MPa	
Flexural Strength (23°C)	53.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	27	J/m	ASTM D256
Unnotched Izod Impact (23°C)	150	J/m	ASTM D4812
Gardner Impact (23°C)	0.452	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	85.0	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	204 to 213	°C	
Middle Temperature	210 to 216	°C	
Front Temperature	216 to 218	°C	
Nozzle Temperature	218 to 227	°C	
Mold Temperature	43.3 to 57.2	°C	
Back Pressure	0.345 to 0.689	MPa	

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