

Ferro PP LPP20BN01HB-BK

Polypropylene Copolymer

Ferro Corporation

Message:

Ferro PP LPP20BN01HB-BK is a Polypropylene Copolymer (PP Copolymer) material filled with 20% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP LPP20BN01HB-BK are:

- Copolymer
- Good Processability
- Good UV Resistance
- Impact Resistant

Typical applications include:

- Coating Applications
- Handles
- Household Applications

General Information			
Filler / Reinforcement	Calcium Carbonate,20% Filler by Weight		
Features	Copolymer		
	Good Impact Resistance		
	Good Processability		
	Good UV Resistance		
	Medium Gloss		
Uses	Handles		
	Lawn and Garden Equipment		
	Protective Coverings		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.5	%	
Across Flow	1.8	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	22.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	90	%	ASTM D638
Flexural Modulus			ASTM D790

1% Secant : 23°C	1270	MPa	
Tangent : 23°C	1390	MPa	
Flexural Strength (23°C)	31.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Unnotched Izod Impact (23°C)	910	J/m	ASTM D4812
Gardner Impact (23°C)	19.8	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	90.6	°C	
1.8 MPa, Unannealed	54.4	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	202 to 204	°C	
Middle Temperature	204 to 210	°C	
Front Temperature	210 to 213	°C	
Nozzle Temperature	213 to 218	°C	
Mold Temperature	43.3 to 51.7	°C	
Back Pressure	0.345 to 0.689	MPa	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

