

Technical Data Sheet



Ferro Pp MPP40FJ15NA

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Mica, 41% Filler by Weight
Features	• Chemically Coupled • Good Dimensional Stability • Creep Resistant • Homopolymer
Uses	• Appliance Components • Appliances
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4900 psi	33.8 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	10 %	10 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	519000 psi	3580 MPa	
Tangent : 73°F (23°C)	746000 psi	5140 MPa	
Flexural Strength (73°F (23°C))	7800 psi	53.8 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.50 ft·lb/in	27 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	2.9 ft·lb/in	150 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	4.00 in·lb	0.452 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	82	82	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	280 °F	138 °C	
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	400 to 415 °F	204 to 213 °C
Middle Temperature	410 to 420 °F	210 to 216 °C
Front Temperature	420 to 425 °F	216 to 218 °C
Nozzle Temperature	425 to 440 °F	218 to 227 °C
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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