Technical Data Sheet

Ferro Pp MPP40FJ15NA

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General		
Filler / Reinforcement	• Mica, 41% Filler by Weight	
Features	• Chemically Coupled • Creep Resistant	• Good Dimensional Stability • 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/cm³	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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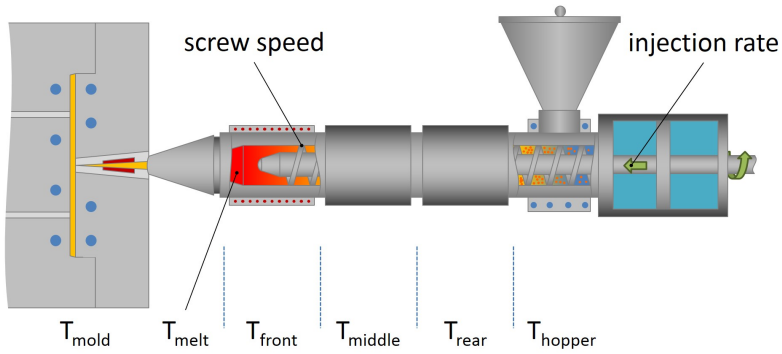

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	400 to 415 °F	204 to 213 °C
Middle Temperature	410 to 420 °F	210 to 216 °C
Front Temperature	420 to 425 °F	216 to 218 °C
Nozzle Temperature	425 to 440 °F	218 to 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.