HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Technical Data Sheet

POLYFORT® MPP40FA05NA

Polypropylene
Engineering Plastics

General		
Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Mica, 40% Filler by Weight	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.26	1.26 g/cm³	ASTM D792
Molding Shrinkage - Flow	8.0E-3 in/in	0.80 %	ASTM D955
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Break)	8.0 %	8.0 %	ASTM D638
Flexural Modulus	450000 psi	3100 MPa	ASTM D790
Flexural Strength (Yield)	7400 psi	51.0 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	0.40 ft·lb/in	21 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	3.5 ft·lb/in	190 J/m	ASTM D256
Gardner Impact	4.00 in·lb	0.452 J	ASTM D3029
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	78	78	ASTM D2240
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	270 °F	132 °C	
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	

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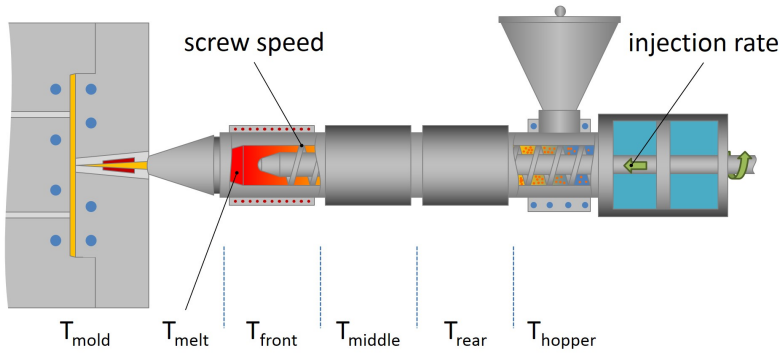

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	400 to 415 °F	204 to 213 °C
Middle Temperature	410 to 420 °F	210 to 216 °C
Front Temperature	420 to 425 °F	216 to 218 °C
Nozzle Temperature	425 to 440 °F	218 to 227 °C
Mold Temperature	110 to 135 °F	43 to 57 °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.