

Technical Data Sheet

POLYFORT® MPP40FA05NA

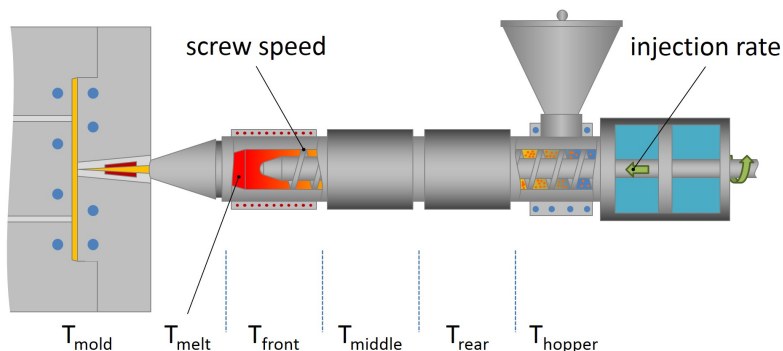
Polypropylene
Engineering Plastics

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.