

Technical Data Sheet

Matrixx SPP1B40CCNA

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

General		
Filler / Reinforcement	• Glass\Talc, 40% Filler by Weight	
Features	• Chemically Coupled • Copolymer	
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)	10 g/10 min	10 g/10 min	ASTM D1238

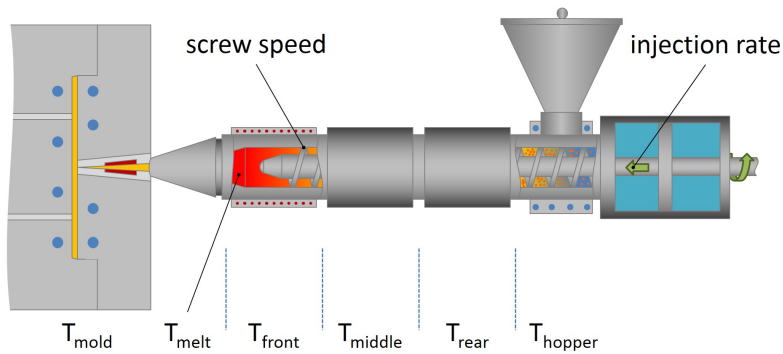
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	8800 psi	60.7 MPa	
Break	10.0 psi	0.0689 MPa	
Flexural Modulus - Tangent	770000 psi	5310 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 In (3.18 Mm)	0.90 ft-lb/in	48 J/m	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 220 °F	82 to 104 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	350 to 430 °F	177 to 221 °C
Middle Temperature	350 to 430 °F	177 to 221 °C
Front Temperature	350 to 430 °F	177 to 221 °C
Processing (Melt) Temp	390 to 440 °F	199 to 227 °C
Mold Temperature	70 to 120 °F	21 to 49 °C
Injection Rate	Moderate	Moderate
Back Pressure	20.0 to 300 psi	0.138 to 2.07 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

Injection Notes

Drying not normally required
Injection Booster Pressure: Maximum without flash, 60% of machine maximum, target
Screw Speed: Slow to Medium

Notes

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