

# Matrixx CPP1B40

Polypropylene

The Matrixx Group, Inc.

Message:

Matrixx CPP1B40 is a polypropylene material, and its filler is 40% calcium carbonate filler. This product is available in North America and is processed by injection molding. The main characteristics of Matrixx CPP1B40 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Calcium carbonate filler, 40% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.0 - 1.4	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.1	MPa	ASTM D638
Flexural Modulus - Tangent	2480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Dart Drop Impact	8.47	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
RTI	65.6	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 104	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	188 - 232	°C	
Middle Temperature	188 - 232	°C	
Front Temperature	188 - 232	°C	
Processing (Melt) Temp	199 - 232	°C	
Mold Temperature	21.1 - 48.9	°C	
Injection Rate	Moderate		
Back Pressure	0.138 - 2.07	MPa	
Cushion	6.35 - 12.7	mm	
Injection instructions			

Drying not normally requiredInjection Booster Pressure: Maximum without flash, 60% of machine maximum, targetScrew Speed: Slow to Medium

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Recommended distributors for this material

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