

# Matrixx CPP5B40

Polypropylene Copolymer

The Matrixx Group, Inc.

Message:

Matrixx CPP5B40 is a polypropylene copolymer (PP Copoly) material, which contains 40% calcium carbonate filler. This product is available in North America and is processed by injection molding.

The main features of the Matrixx CPP5B40 are:

flame retardant/rated flame  
Copolymer

General Information			
Filler / Reinforcement	Calcium carbonate filler, 40% filler by weight		
Features	Copolymer		
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	0.90 - 1.3	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	17.2	MPa	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Dart Drop Impact	15.8	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI	65.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Additional Information			
The value listed as Mold Shrinkage, ASTM D955, was tested in accordance with Matrixx test methods.			
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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