

Technical Data Sheet

**Matrixx CPP2B40**

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

CPP2B40 is a 40% Calcium Carbonate Filled Polypropylene Copolymer

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Calcium Carbonate, 40% Filler by Weight
Features	• Copolymer
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.9 g/10 min	9.9 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3040 psi	21.0 MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	7.0 %	7.0 %	
Flexural Modulus (73°F (23°C))	379000 psi	2610 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.4 ft·lb/in	130 J/m	ASTM D256
Gardner Impact (73°F (23°C))	172 in·lb	19.4 J	ASTM D5420

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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	370 to 450 °F	188 to 232 °C
Middle Temperature	370 to 450 °F	188 to 232 °C
Front Temperature	370 to 450 °F	188 to 232 °C
Processing (Melt) Temp	390 to 450 °F	199 to 232 °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

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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