

Technical Data Sheet

# Matrixx CPP1D20

Polypropylene  
 LyondellBasell Industries  
 Engineering Plastics

**Product Description**

CPP1D20 is a 20% Calcium Carbonate Filled Polypropylene

**General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	18 g/10 min	18 g/10 min	ASTM D1238
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Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Strength			ASTM D638
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Yield, 73°F (23°C), 0.125 In (3.18 Mm)	4110 psi	28.3 MPa	
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Flexural Modulus			ASTM D790
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73°F (23°C), 0.125 In (3.18 Mm)	279000 psi	1920 MPa	
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Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Notched Izod Impact			ASTM D256
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73°F (23°C), 0.125 In (3.18 Mm)	1.1 ft·lb/in	59 J/m	
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Gardner Impact			ASTM D5420
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73°F (23°C), 0.125 In (3.18 Mm)	67.0 in·lb	7.57 J	
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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.