

Technical Data Sheet

Matrixx CPP5A20HBBK

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description
 CPP5A20HBBK is a 20% Calcium Carbonate Filled, Impact Modified Polypropylene Homopolymer

General	
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight
Features	• Homopolymer • Impact Modified
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	2780 psi	19.2 MPa	ASTM D638
Flexural Modulus (73°F (23°C))	187000 psi	1290 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	13 ft·lb/in	690 J/m	ASTM D256
Gardner Impact 73°F (23°C), 0.125 In (3.18 Mm)	174 in·lb	19.7 J	ASTM D5420

Technical Data Sheet

Matrixx CPP5A20HBBK

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics



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.