

Technical Data Sheet

**Ferro Pp CPP20GH**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Filler / Reinforcement	• Mineral, 26% Filler by Weight		
Features	• Good Impact Resistance	• UV Resistant	
Uses	• Outdoor Furnishings		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3370 psi	23.2 MPa	ASTM D638
Tensile Elongation (Break)	66 %	66 %	ASTM D638
Flexural Modulus	243000 psi	1680 MPa	ASTM D790
Flexural Strength (Yield)	4900 psi	33.8 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.65 ft·lb/in	35 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	15 ft·lb/in	800 J/m	ASTM D4812
Gardner Impact (0.125 in (3.18 mm))	60.0 in·lb	6.78 J	ASTM D3029
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	71	71	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	226 °F	108 °C	
264 psi (1.8 MPa), Unannealed	150 °F	65.6 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	395 to 400 °F	202 to 204 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	410 to 415 °F	210 to 213 °C
Nozzle Temperature	415 to 425 °F	213 to 218 °C
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

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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