

Technical Data Sheet

Ferro Pp CPP20GH

Polypropylene
LyondellBasell Industries
Engineering Plastics

General	
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/cm ³	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

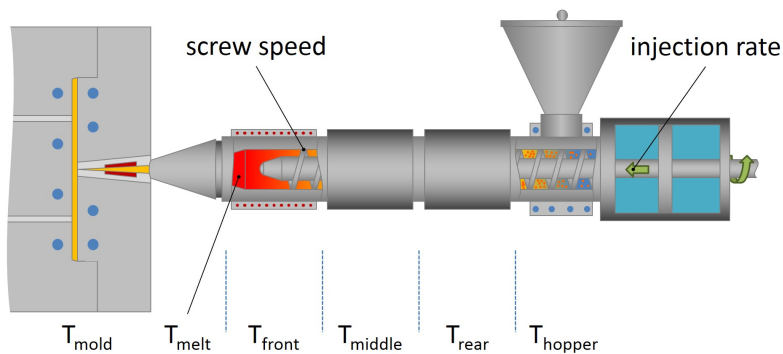
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	71	71	ASTM D2240

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	

Technical Data Sheet

Ferro Pp CPP20GH

Polypropylene
LyondellBasell Industries
Engineering Plastics



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.