

Technical Data Sheet

Ferrex GPP20CN30AL

Polypropylene
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Calcium Carbonate, 21% Filler by Weight
Features	• Good Impact Resistance • High Gloss
Uses	• Automotive Exterior Parts • Protective Coverings
Appearance	• Aluminum
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)	23 g/10 min	23 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2700 psi	18.6 MPa	ASTM D638
Tensile Elongation (Break)	150 %	150 %	ASTM D638
Flexural Modulus	170000 psi	1170 MPa	ASTM D790
Flexural Strength (Yield)	4100 psi	28.3 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact	250 in·lb	28.2 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	65	65	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	186 °F	85.6 °C	
264 Psi (1.8 Mpa), Unannealed	130 °F	54.4 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	390 to 400 °F	199 to 204 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	410 to 420 °F	210 to 216 °C
Nozzle Temperature	420 to 430 °F	216 to 221 °C
Mold Temperature	115 to 140 °F	46 to 60 °C
Back Pressure	20.0 to 50.0 psi	0.138 to 0.345 MPa
Screw Speed	100 to 150 rpm	100 to 150 rpm
Clamp Tonnage	2.0 to 3.0 tons/in ²	2.8 to 4.1 kN/cm ²
Screw L/D Ratio	20.0:1.0	20.0:1.0
Screw Compression Ratio	2.0:1.0	2.0:1.0

Notes

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