

Technical Data Sheet

Ferro Pp TPP20AJ39UL GRAY

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

General	
Filler / Reinforcement	• Talc, 22% Filler by Weight
Features	• Homopolymer
Appearance	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	21 g/10 min	21 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4900 psi	33.8 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	18 %	18 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	325000 psi	2240 MPa	
Tangent : 73°F (23°C)	384000 psi	2650 MPa	
Flexural Strength (73°F (23°C))	7600 psi	52.4 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.70 ft·lb/in	37 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	7.7 ft·lb/in	410 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	6.50 in·lb	0.734 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	252 °F	122 °C	
264 Psi (1.8 Mpa), Unannealed	163 °F	72.8 °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
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Notes

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