

Technical Data Sheet

# Ferro Pp LPP40YR01GY

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

General	
Filler / Reinforcement	• Calcium Carbonate, 39% Filler by Weight
Features	• Copolymer
Appearance	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	160 %	160 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	239000 psi	1650 MPa	
Tangent : 73°F (23°C)	258000 psi	1780 MPa	
Flexural Strength (73°F (23°C))	3700 psi	25.5 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	20 ft·lb/in	1000 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact (73°F (23°C))	265 in·lb	29.9 J	ASTM D5420

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	66	66	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	200 °F	93.3 °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	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.