

Technical Data Sheet

Ferro Pp TPP20AD72HB-NA

Polypropylene
LyondellBasell Industries
Engineering Plastics

General		
Filler / Reinforcement	• Talc, 20% Filler by Weight	
Features	• General Purpose	• Homopolymer
Appearance	• Natural Color	
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)	5.5 g/10 min	5.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	328000 psi	2260 MPa	ASTM D638
Tensile Strength (73°F (23°C))	5000 psi	34.5 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	14 %	14 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	387000 psi	2670 MPa	
Tangent : 73°F (23°C)	422000 psi	2910 MPa	
Flexural Strength (73°F (23°C))	8100 psi	55.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.40 ft·lb/in	21 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	8.0 ft·lb/in	430 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	4.50 in·lb	0.508 J	ASTM D5420

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	73	73	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	260 °F	127 °C	
264 Psi (1.8 Mpa), Unannealed	165 °F	73.9 °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	400 to 410 °F	204 to 210 °C
Middle Temperature	410 to 415 °F	210 to 213 °C
Front Temperature	415 to 420 °F	213 to 216 °C
Nozzle Temperature	420 to 425 °F	216 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	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.