

Technical Data Sheet

# Ferro Pp TPP20AC06HB

Polypropylene Homopolymer  
 LyondellBasell Industries  
 Engineering Plastics

**Product Description**

Primary end use is for AC/heater blower wheels.

**General**

Filler / Reinforcement	• Talc, 20% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Homopolymer
Uses	• Automotive Applications • Housings • Protective Coverings
Automotive Specifications	• ASTM D5857 PP212 T20 Z1 • FORD ESA-M4D293-A • CHRYSLER MS-DB-500 • FORD ESH-M4D293-B CPN1733 Color: Natural
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density / Specific Gravity	1.06	1.06 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.7 g/10 min	5.7 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Strength (73°F (23°C))	4860 psi	33.5 MPa	ASTM D638
Tensile Elongation (Break)	24 %	24 %	ASTM D638
Flexural Modulus	392000 psi	2700 MPa	ASTM D790
Flexural Strength (Yield)	7700 psi	53.1 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Notched Izod Impact (73°F (23°C))	0.69 ft·lb/in	37 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	11 ft·lb/in	580 J/m	ASTM D4812
Gardner Impact	6.00 in·lb	0.678 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
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Rockwell Hardness (R-scale)	102	102	ASTM D785
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	261 °F	127 °C	
264 Psi (1.8 Mpa), Unannealed	162 °F	72.0 °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 <sup>2</sup>	2.8 to 4.1 kN/cm <sup>2</sup>
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.