

Technical Data Sheet

**Ferro Pp TPP20AF20BK**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

25% minimum post consumer recycle (P.C.R.)
Meets/Exceeds Ford Engineering Specification WSH-M4D293-B2.
Primary end use is for AC/heater housings.

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Talc, 21% Filler by Weight	
Additive	• Heat Stabilizer	
Recycled Content	• Post-Consumer (PCR), 25%	
Features	• Heat Stabilized	• Homopolymer
Automotive Specifications	• FORD WSH-M4D293-B2 Color: N	• VISTEON VAM-PP010000-T20BKH25 Application 003
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.06 g/cm ³	1.06 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	4370 psi	30.1 MPa	ISO 527-2
Flexural Modulus	348000 psi	2400 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180
-40°F (-40°C)	1.1 ft·lb/in ²	2.4 kJ/m ²	
73°F (23°C)	1.7 ft·lb/in ²	3.6 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	244 °F	118 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	156 °F	69.0 °C	ISO 75-2/A

Additional Information

Tensile/Izod Change, ISO 188, 1000 hours, 140°C: +5%/+5%

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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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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