

Technical Data Sheet

**Ferro Pp TPP20AE63BK**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

20% Talc filled, heat-stabilized, homopolymer polypropylene containing 25% P.C.R., precolored black.
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	
Features	• Heat Stabilized	• Homopolymer
Uses	• Housings	
Automotive Specifications	• FORD WSH-M4D293-B2	• VISTEON VAM-PP010000-T20BKH25 Application 002
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
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.3 g/10 min	6.3 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	4390 psi	30.3 MPa	ISO 527-2
Flexural Modulus	363000 psi	2500 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	2.3 kJ/m ²	
73°F (23°C)	1.7 ft·lb/in ²	3.5 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	248 °F	120 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	160 °F	71.0 °C	ISO 75-2/A

Additional Information

Mineral Content, ISO 3451/1: 21%
Tensile/Izod Change, ISO 188, 1000 hours, 140°C: +7%/+3%
Linear/Transverse Mold Shrinkage, ISO 2577: 1.5%

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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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