

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

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.