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/cm³	1.06 g/cm³	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/in²	2.3 kJ/m²	
73°f (23°c)	1.7 ft·lb/in²	3.5 kJ/m²	
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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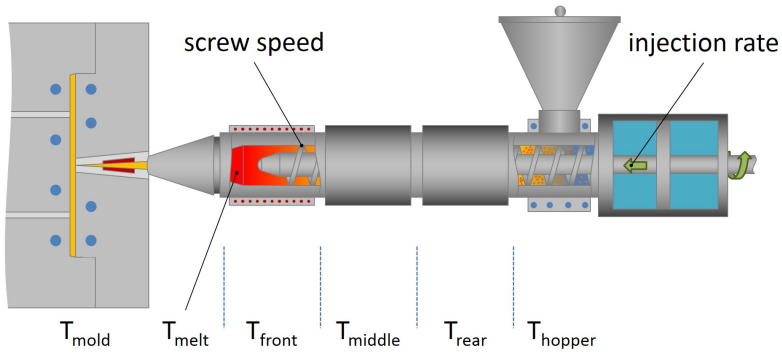

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Notes

These are typical property values not to be construed as specification limits.