

Technical Data Sheet

**Ferro Pp TPP13AC03BK**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

Meets/Exceeds Ford Engineering Specification ESB-M4D606-A.
Primary end use is for armrest inserts and visor panel cores.

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Talc, 13% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Heat Stabilized	• Homopolymer
Automotive Specifications	• GM GMP.PP.065 Color: Black	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.01	1.01 g/cm ³	ASTM D792
--	1.01 g/cm ³	1.01 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			
Yield	5100 psi	35.2 MPa	ASTM D638
Yield, 73°F (23°C)	4760 psi	32.8 MPa	ISO 527-2
Tensile Elongation (Break)	26 %	26 %	ASTM D638
Flexural Modulus			
--	280000 psi	1930 MPa	ASTM D790
--	339000 psi	2340 MPa	ISO 178
Flexural Strength (Yield)	7300 psi	50.3 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			
73°F (23°C)	0.60 ft·lb/in	32 J/m	ASTM D256
-40°F (-40°C)	1.1 ft·lb/in ²	2.3 kJ/m ²	ISO 180
73°F (23°C)	1.3 ft·lb/in ²	2.7 kJ/m ²	ISO 180
Unnotched Izod Impact (73°F (23°C))	12 ft·lb/in	640 J/m	ASTM D4812
Gardner Impact	10.0 in·lb	1.13 J	ASTM D3029
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	73	73	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	241 °F	116 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	235 °F	113 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	150 °F	65.6 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	147 °F	64.0 °C	ISO 75-2/A

Additional Information

Tensile/Izod Change, ISO 188, 1000 hours, 140°C: +2%/-4%

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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 ²	2.8 to 4.1 kN/cm ²
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.

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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