

Technical Data Sheet

**Ferro Pp TPP20AE54WH**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Talc, 20% Filler by Weight	
Features	• Homopolymer	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density / Specific Gravity	1.09	1.09 g/cm ³	ASTM D792
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
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Tensile Strength (Yield, 73°F (23°C))	4800 psi	33.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	20 %	20 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	333000 psi	2300 MPa	
Tangent : 73°F (23°C)	398000 psi	2740 MPa	
Flexural Strength (Yield, 73°F (23°C))	7700 psi	53.1 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Notched Izod Impact (73°F (23°C))	0.70 ft·lb/in	37 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	9.7 ft·lb/in	520 J/m	ASTM D4812
Gardner Impact	5.00 in·lb	0.565 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	255 °F	124 °C	
264 psi (1.8 MPa), Unannealed	170 °F	76.7 °C	

Additional Information

Filler Content, ASTM D2584: 24%

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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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