

Technical Data Sheet

Ferro Pp TPP40AE53HB BLACK

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Talc, 43% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized	• Homopolymer	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.26	1.26 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	15 g/10 min	15 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°f (23°c))	4400 psi	30.3 MPa	ASTM D638
Tensile Elongation (Break, 73°f (23°c))	5.0 %	5.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°f (23°c)	465000 psi	3210 MPa	
Tangent : 73°f (23°c)	550000 psi	3790 MPa	
Flexural Strength (73°f (23°c))	7800 psi	53.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°f (23°c))	0.40 ft·lb/in	21 J/m	ASTM D256
Unnotched Izod Impact (73°f (23°c))	4.2 ft·lb/in	220 J/m	ASTM D4812
Gardner Impact (73°f (23°c))	7.00 in·lb	0.791 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	265 °F	129 °C	
264 Psi (1.8 Mpa), Unannealed	175 °F	79.4 °C	

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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.