

Technical Data Sheet

Ferro Pe RPE10HW14BK

Polyethylene
LyondellBasell Industries
Engineering Plastics

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Forms	• Pellets

Physical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.02	1.02 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	5.8 g/10 min	5.8 g/10 min	ASTM D1238

Mechanical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	12 %	12 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	183000 psi	1260 MPa	
Tangent : 73°F (23°C)	205000 psi	1410 MPa	
Flexural Strength (Yield, 73°F (23°C))	5000 psi	34.5 MPa	ASTM D790

Impact

	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.2 ft·lb/in	64 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	6.4 ft·lb/in	340 J/m	ASTM D4812
Gardner Impact	62.0 in·lb	7.01 J	ASTM D5420

Thermal

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	240 °F	116 °C	
264 Psi (1.8 Mpa), Unannealed	160 °F	71.1 °C	

Additional Information

Filler Content, ASTM D2584: 10%

Notes

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