

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 <sup>3</sup> | 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.