

# Ferro PE RPE20HW08WH

Polyethylene  
Ferro Corporation

Message:  
Ferro PE RPE20HW08WH is a polyethylene material, which contains a 20% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

| General Information                       |   |                   |             |
|---|---|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Appearance                                | White   |                   |             |
| Forms                                     | Particle  |                   |             |
| Physical                                  | Nominal Value   | Unit              | Test Method |
| Specific Gravity                          | 1.10  | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.8   | g/10 min          | ASTM D1238  |
| Mechanical                                | Nominal Value   | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)            | 37.9  | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 3.1   | %                 | ASTM D638   |
| Flexural Modulus                          |   |                   | ASTM D790   |
| 1% secant: 23°C                           | 2300  | MPa               | ASTM D790   |
| Tangent: 23°C                             | 2790  | MPa               | ASTM D790   |
| Flexural Strength (Yield, 23°C)           | 50.3  | MPa               | ASTM D790   |
| Impact                                    | Nominal Value   | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 53  | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 210   | J/m               | ASTM D256   |
| Dart Drop Impact                          | 1.62  | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value   | Unit              | Test Method |
| Deflection Temperature Under Load         |   |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 124   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 93.9  | °C                | ASTM D648   |
| Additional Information                    |   |                   |             |
| Filler Content, ASTM D2584: 20%           |   |                   |             |

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