



# Maxxam™ PE4125 B1

## High Density Polyethylene

### Key Characteristics

| General                |                                          |                             |                 |
|------------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status        | • Commercial: Active                     |                             |                 |
| Regional Availability  | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber                            |                             |                 |
| Forms                  | • Pellets                                |                             |                 |

### Technical Properties <sup>1</sup>

| Physical                                                                    | Typical Value (English) | Typical Value (SI) | Test Method |
|-----------------------------------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                                                  | 1.14                    | 1.14               | ASTM D792   |
| Mechanical                                                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (Break)                                       | 4060 psi                | 28.0 MPa           | ASTM D638   |
| Flexural Modulus                                                            | 283000 psi              | 1950 MPa           | ASTM D790   |
| Impact                                                                      | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact<br>73°F (23°C), 0.250 in (6.35 mm),<br>Injection Molded | 3.5 ft·lb/in            | 190 J/m            | ASTM D256A  |
| Thermal                                                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load<br>66 psi (0.45 MPa), Unannealed          | 190 °F                  | 88.0 °C            | ASTM D648   |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Unannealed          | 115 °F                  | 46.0 °C            | ASTM D648   |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 380 to 430 °F           | 193 to 221 °C      |
| Mold Temperature       | 80 to 130 °F            | 27 to 54 °C        |

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)