



## Maxxam™ PE GF/10 Natural 70 NA

### High Density Polyethylene

#### Key Characteristics

##### Product Description

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

##### General

|                        |                                                          |                                              |                           |
|------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------|
| Material Status        | • Commercial: Active                                     |                                              |                           |
| Regional Availability  | • Africa & Middle East<br>• Asia Pacific                 | • Europe<br>• Latin America                  | • North America           |
| Filler / Reinforcement | • Glass Fiber                                            |                                              |                           |
| Features               | • General Purpose                                        |                                              |                           |
| Uses                   | • Automotive Applications<br>• Construction Applications | • Consumer Applications<br>• General Purpose | • Industrial Applications |
| Appearance             | • Natural Color                                          |                                              |                           |
| Forms                  | • Pellets                                                |                                              |                           |
| Processing Method      | • Injection Molding                                      |                                              |                           |

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

| Physical                                                   | Typical Value (English)   | Typical Value (SI)     | Test Method |
|------------------------------------------------------------|---------------------------|------------------------|-------------|
| Density                                                    | 1.02 g/cm <sup>3</sup>    | 1.02 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                  | 5.0 g/10 min              | 5.0 g/10 min           | ISO 1133    |
| Mechanical                                                 | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Tensile Modulus                                            | 297000 psi                | 2050 MPa               | ISO 527-2   |
| Tensile Stress (Break)                                     | 4930 psi                  | 34.0 MPa               | ISO 527-2   |
| Tensile Strain (Break)                                     | 18 %                      | 18 %                   | ISO 527-2   |
| Flexural Modulus                                           | 276000 psi                | 1900 MPa               | ISO 178     |
| Impact                                                     | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Notched Izod Impact Strength                               | 2.9 ft·lb/in <sup>2</sup> | 6.0 kJ/m <sup>2</sup>  | ISO 180     |
| Thermal                                                    | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Heat Deflection Temperature<br>264 psi (1.8 MPa), Annealed | 241 °F                    | 116 °C                 | ISO 75-2/A  |

#### Notes

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