



Maxxam™ PP5420 B1

Polypropylene Homopolymer

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 • Europe |
| Filler / Reinforcement | • Glass Fiber |
| Features | • General Purpose • Homopolymer |
| Uses | • Automotive Applications • Consumer Applications • Industrial Applications • Construction Applications • General Purpose |
| Automotive Specifications | • GM GMP.PP.099 |
| Appearance | • Natural Color |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|--|---------------------------|------------------------|-------------|
| Density | 1.05 g/cm ³ | 1.05 g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | 4.0 g/10 min | 4.0 g/10 min | ISO 1133 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Stress | 9720 psi | 67.0 MPa | ISO 527-2 |
| Flexural Modulus | 508000 psi | 3500 MPa | ISO 178 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact Strength | 4.3 ft-lb/in ² | 9.0 kJ/m ² | ISO 180 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed | 306 °F | 152 °C | ISO 75-2/B |
| Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed | 286 °F | 141 °C | ISO 75-2/A |

Notes

¹ Typical values are not to be construed as specifications.