



Maxxam™ PPR-30G Nat

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 • Asia Pacific | • Europe • Latin America | • North America |
| Filler / Reinforcement | • Filler, 30% Filler by Weight • Glass Fiber | | |
| Features | • Chemically Coupled | • General Purpose | • Homopolymer |
| Uses | • Automotive Applications • Construction Applications | • Consumer Applications • General Purpose | • Industrial Applications |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|--------------------------|--------------------------|-------------|
| Density / Specific Gravity | 1.13 | 1.13 | ASTM D792 |
| Specific Volume | 24.5 in ³ /lb | 0.885 cm ³ /g | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg) | 5.0 g/10 min | 5.0 g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.0E-3 to 4.0E-3 in/in | 0.10 to 0.40 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ³ (Yield) | 11900 psi | 82.0 MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 9.0 % | 9.0 % | ASTM D638 |
| Flexural Modulus | 730000 psi | 5030 MPa | ASTM D790 |
| Flexural Strength | 16700 psi | 115 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded | 1.5 ft-lb/in | 80 J/m | ASTM D256A |
| Unnotched Izod Impact ⁴ 73°F (23°C), 0.125 in (3.18 mm) | 6.4 ft-lb/in | 340 J/m | ASTM D256 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm) | 323 °F | 162 °C | ASTM D648 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating (0.06 in (1.5 mm), ALL) | HB | HB | UL 94 |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------|-------------------------|--------------------|
| Mold Temperature | 61 to 122 °F | 16 to 50 °C |

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type I, 2.0 in/min (51 mm/min)

⁴ Injection Molded



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