

PolyOne Maxxam™ X MX5210-0030 RS Natural Polypropylene Homopolymer (PP Homopolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Maxxam-X-MX5210-0030-RS-Natural-Polypropylene-Homopolymer-PP-Homopolymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|-------------------------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0040 cm/cm | 0.0010 - 0.0040 in/in | ASTM D955 |
| Melt Flow | 6.0 g/10 min @Load 2.16 kg, Temperature 260 °C | 6.0 g/10 min @Load 4.76 lb, Temperature 500 °F | Procedure A; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|--|------------------------------|
| Tensile Strength, Yield | 82.0 MPa | 11900 psi | Type I, 51 mm/min; ASTM D638 |
| Elongation at Break | 9.0 % | 9.0 % | Type I, 51 mm/min; ASTM D638 |
| Flexural Strength | 115 MPa | 16700 psi | ASTM D790 |
| Flexural Modulus | 5.03 GPa | 730 ksi | ASTM D790 |
| Izod Impact, Notched | 0.800 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 1.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |
| Izod Impact, Unnotched | 3.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 6.37 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 162 °C @Thickness 3.18 mm | 324 °F @Thickness 0.125 in | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties | Metric | English | Comments |
|-------------------------------|--|---------|---|
| Descriptive Properties | Value | | Comments |
| Agency Ratings | FDA Unspecified Rating | | FDA rating based upon application usage |
| Appearance | Natural Color | | |
| Features | Chemically Coupled | | |
| | General Purpose | | |
| | Homopolymer | | |
| Filler / Reinforcement | Glass Fiber Reinforcement | | |
| | Unspecified FillerReinfor., 30% Filler by Weight | | |
| Forms | Pellets | | |
| Generic Material | PP Homopolymer | | |
| Generic Name | Polypropylene Homopolymer (PP Homopolymer) | | |
| Processing Method | Injection Molding | | |
| Regional Availability | Africa & Middle East | | |
| | Asia Pacific | | |
| | Europe | | |
| | North America | | |
| | South America | | |
| Uses | Consumer Applications | | |
| | General Purpose | | |
| | Hospital Goods | | |
| | Industrial Applications | | |
| | Medical Appliances | | |

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