

Maxxam™ MX5200-5006 RS NATURAL

Polypropylene Homopolymer

PolyOne Corporation

Message:

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 Information | | | |
|---|---------------------------|-------------------|-------------|
| Filler / Reinforcement | Talc\Mineral | | |
| Features | General Purpose | | |
| | Homopolymer | | |
| Uses | Automotive Applications | | |
| | Construction Applications | | |
| | Consumer Applications | | |
| | General Purpose | | |
| | Industrial Applications | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.05 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 7.6 | g/10 min | ISO 1133 |
| Molding Shrinkage - Flow | 0.50 to 1.0 | % | ISO 294-4 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 35.0 | MPa | ISO 527-2 |
| Flexural Modulus | 2520 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | 3.5 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 67.0 | °C | ISO 75-2/A |
| Flammability | Nominal Value | Unit | Test Method |
| Burning Rate | 19 | mm/min | ISO 3795 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80.0 | °C | |
| Drying Time | 1.0 | hr | |
| Rear Temperature | 185 to 200 | °C | |

| | | |
|--------------------|------------|-----|
| Middle Temperature | 200 to 215 | °C |
| Front Temperature | 205 to 220 | °C |
| Nozzle Temperature | 205 to 220 | °C |
| Mold Temperature | 40.0 | °C |
| Injection Rate | Moderate | |
| Back Pressure | 8.00 | MPa |

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