

Exelene® PP C2504

Polypropylene Impact Copolymer

Montachem International, Inc.

Message:

Applications:

Garden furniture, housewares

Thin walled articles

Characteristics:

The Exelene resin PP C2504 meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

| General Information | | | |
|---|--------------------------------|-------------------|-------------|
| Additive | Antioxidant | | |
| Features | Antioxidant | | |
| | Impact Copolymer | | |
| Uses | Food Service Applications | | |
| | Furniture | | |
| | Household Goods | | |
| | Non-specific Food Applications | | |
| | Outdoor Furnishings | | |
| | Thin-walled Parts | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.898 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 25 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 27.6 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield) | 6.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (3.20 mm) | 1450 | MPa | ASTM D790B |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.20 mm) | 110 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load ⁴ (0.45 MPa, Unannealed) | 90.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 150 | °C | ASTM D1525 |
| NOTE | | | |
| 1. | Type IV, 50 mm/min | | |
| 2. | Type IV, 50 mm/min | | |

| | |
|----|---------------------------------------|
| 3. | Method I (3 point load), 13 mm/min |
| 4. | 2°C/min |

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