

Formolene® 2502A

Polypropylene Impact Copolymer

Formosa Plastics Corporation, U.S.A.

Message:

Formolene® 2502A is a high impact copolymer polypropylene with an excellent balance of toughness and stiffness. It is suitable for blow-molded bottles and components, heavy gauge sheet for thermoformed containers and components and profile extrusions including corrugated board.

Formolene® 2502A meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact.

This material is free of animal-derived content.

| General Information | |
|---------------------|---|
| Features | Rigid, good Impact copolymer Impact resistance, high Good toughness Compliance of Food Exposure |
| Uses | Sheet Bottle Thermoformed container Container |
| Agency Ratings | EC 1907/2006 (REACH) FDA 21 CFR 177.1520 |
| Forms | Particle |
| Processing Method | Blow molding Thermoforming Profile extrusion molding |

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.8 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded) | 95 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, Injection Molded) | 26.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield, Injection Molded) | 9.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (Injection Molded) | 1170 | MPa | ASTM D790 |

| Impact | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------|
| Notched Izod Impact | | | ASTM D256A |
| 0°C, injection molding | 91 | J/m | ASTM D256A |
| 23°C, injection molding | No Break | | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded) | 97.0 | °C | ASTM D648 |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 1.3 mm/min | | |

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