

Formolene® 5144L

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

Formolene 5144L is a highly isotactic, nucleated polypropylene homopolymer designed for consumer products and appliance applications that require high stiffness and long-term exposure to elevated temperatures. It has found success in home laundry and dishwasher applications.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| UL YellowCard | E205741-313147 | | |
| Additive | Nucleating Agent | | |
| Features | Food Contact Acceptable | | |
| | Good Thermal Stability | | |
| | High Heat Resistance | | |
| | High Isotactic | | |
| | High Stiffness | | |
| | Homopolymer | | |
| Uses | Nucleated | | |
| | | | |
| Uses | Appliances | | |
| | Consumer Applications | | |
| Agency Ratings | | | |
| | EC 1907/2006 (REACH) | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| | | | |
| Forms | Pellets | | |
| Processing Method | Injection 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) | 5.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 115 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 40.7 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield) | 9.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ | 2000 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 27 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |

| Deflection Temperature Under Load | | ASTM D648 |
|-----------------------------------|------------|-----------|
| 0.45 MPa, Unannealed | 125 | °C |
| 1.8 MPa, Annealed | 66.0 | °C |
| NOTE | | |
| 1. | 50 mm/min | |
| 2. | 50 mm/min | |
| 3. | 1.3 mm/min | |

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