

Formolene® 4142N

Polypropylene Homopolymer
Formosa Plastics Corporation, U.S.A.

Message:

Homopolymer For Injection Molded Applications

Formolene® 4142N is a highly isotactic, polypropylene homopolymer with fast cycle time and easy mold release. It has use in injection molded applications including appliances, closures and thin wall programs. It contains a unique combination of stabilizers and additives, including nucleation and antistat which provides excellent processability and good end use performance.

Formolene® 4142N meets all 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.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| UL YellowCard | E205741-228221 | | |
| Additive | Antistatic | | |
| | Nucleating Agent | | |
| Features | Antistatic | | |
| | Fast Molding Cycle | | |
| | Food Contact Acceptable | | |
| | Good Mold Release | | |
| | Good Processability | | |
| | High Isotactic | | |
| | Homopolymer | | |
| | Nucleated | | |
| Uses | Appliances | | |
| | Closures | | |
| | Thin-walled Parts | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| | 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) | 12 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded) | 115 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |

| | | | |
|--|---------------|------|-------------|
| Tensile Strength ¹ (Yield, Injection Molded) | 40.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield, Injection Molded) | 6.5 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (Injection Molded) | 1860 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, Injection Molded) | 32 | J/m | ASTM D256 |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 1.3 mm/min | | |

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