

Formosa Plastics Formolene® 4142T Injection Molding Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Homopolymer with Nucleating, Antistat Additives Applications: Appliance, closure and thin wall applications. Formolene 4142T is a low viscosity, highly isotactic polypropylene homopolymer designed primarily for appliance, closure and thin wall applications. It contains a unique combination of stabilizers including nucleators and antistats that give it an excellent balance of stiffness and toughness.

Formolene 4142T fills molds easily and sets up quickly. Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. Specimens were injection molded according to the conditions specified in ASTM D4101. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-4142T-Injection-Molding-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------------------------|------------------------------------|-----------------------------|
| Density | 0.900 g/cc | 0.0325 lb/in ³ | ASTM D1505 |
| Melt Flow | 35 g/10 min @Temperature 230 °C | 35 g/10 min @Temperature 446 °F | I ₂ ; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|-------------------------------------|
| Hardness, Rockwell R | 110 | 110 | ASTM D785 |
| Tensile Strength, Yield | 38.6 MPa | 5600 psi | 2" (50mm) per min.; ASTM D638 |
| Elongation at Yield | 7.0 % | 7.0 % | 2" (50mm) per min.; ASTM D638 |
| Flexural Modulus | 1.79 GPa | 260 ksi | 1.3mm per min, 1% secant; ASTM D790 |
| Izod Impact, Notched | 0.267 J/cm | 0.500 ft-lb/in | ASTM D256 |

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