

Formosa Plastics Formolene® 4142R 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 4142R 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 4142R 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-4142R-Injection-Molding-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	20 g/10 min @Temperature 230 °C	20 g/10 min @Temperature 446 °F	1₂; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	40.0 MPa	5800 psi	2" (50mm) per min.; ASTM D638
Elongation at Yield	6.0 %	6.0 %	2" (50mm) per min.; ASTM D638
Flexural Modulus	1.86 GPa	270 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.600 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	126 °C	259 °F	ASTM D648

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