

Formosa Plastics Formolene® 4100N Injection Molding Polypropylene

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

Material Notes:

Homopolymer with ESCR Additives
Applications: Closures, small appliances, housewares and toys. Formolene 4100N is a medium viscosity, highly isotactic polypropylene homopolymer designed for various injection molded applications such as closures, small appliances, housewares and toys. It contains a unique combination of stabilizers which give it excellent processability with good stiffness, environmental stress crack resistance, heat performance and minimal odor and taste. 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-4100N-Injection-Molding-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	12 g/10 min @Temperature 230 °C	12 g/10 min @Temperature 446 °F	I ₂ ; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	33.1 MPa	4800 psi	2" (50mm) per min.; ASTM D638
Elongation at Yield	8.0 %	8.0 %	2" (50mm) per min.; ASTM D638
Flexural Modulus	1.24 GPa	180 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)	100 °C	212 °F	ASTM D648

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