



Formolene® 4100N

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 4100N is a medium viscosity, polypropylene homopolymer designed for various general purpose injection molding applications such as closures, small appliances, housewares and toys. It contains a unique combination of stabilizers, which provides excellent processability with good stiffness, environmental stress crack resistance, heat performance and minimal odor & taste.

Formolene® 4100N meets the 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.

This material is free of animal-derived content.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Unspecified Stabilizer		
Features	• Food Contact Acceptable • General Purpose • Good Processability • Good Stiffness	• High ESCR (Stress Crack Resist.) • High Heat Resistance • Homopolymer • Low Odor	• Low to No Taste • Medium Viscosity • No Animal Derived Components
Uses	• Appliances • Closures	• General Purpose • Household Goods	• Toys
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	5080	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	199000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	0.51	ft-lb/in	ASTM D256A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Injection Molded	212	°F	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 0.051 in/min

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