



Formolene® 4100P

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 4100P is a polypropylene homopolymer designed for general purpose injection molding applications including 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® 4100P 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	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> North America 		
Additive	<ul style="list-style-type: none"> Unspecified Stabilizer 		
Features	<ul style="list-style-type: none"> Food Contact Acceptable General Purpose Good Processability Good Stiffness 	<ul style="list-style-type: none"> High ESCR (Stress Crack Resist.) High Heat Resistance High Isotactic Homopolymer 	<ul style="list-style-type: none"> Low Odor Low to No Taste No Animal Derived Components
Uses	<ul style="list-style-type: none"> Appliances Closures 	<ul style="list-style-type: none"> General Purpose Household Goods 	<ul style="list-style-type: none"> Toys
Agency Ratings	<ul style="list-style-type: none"> EC 1907/2006 (REACH) FDA 21 CFR 177.1520 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

ASTM & ISO Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical			
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			
Notched Izod Impact (73°F, Injection Molded)	0.39	ft-lb/in	ASTM D256A
Hardness			
Rockwell Hardness (R-Scale, Injection Molded)	105		ASTM D785
Thermal			
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	212	°F	

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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