



# Formolene® 5100I

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

Tuesday, November 5, 2019

## General Information

### Product Description

Formolene® 5100I is a high molecular weight, polypropylene homopolymer designed for compounding and extrusion applications. It has applications in blow molding and thermoforming of large components and profile extrusion blow molding. It contains a unique combination of stabilizers and additives, which provides excellent processability and good end use performance. It does not contain slip or anti-block.

Formolene® 5100I 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 Additive	• Unspecified Stabilizer	
Features	• Excellent Processability • Food Contact Acceptable	• High Molecular Weight • Homopolymer	• No Animal Derived Components
Uses	• Blow Molding Applications • Compounding	• Profiles • Thermoforming Applications	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Blow Molding • Compounding	• Extrusion • Thermoforming	

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, Injection Molded)	5220	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	220000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	1.5	ft·lb/in	ASTM D256A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	110		ASTM D785

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min

<sup>3</sup> 0.051 in/min

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