

# Formolene® 5100J

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

Message:

Homopolymer for Compounding and Extrusion Applications

Formolene® 5100J 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® 5100J meets all 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.

General Information	
Additive	Unspecified Additive Unspecified Stabilizer
Features	Food Contact Acceptable Good Processing Stability High Molecular Weight Homopolymer
Uses	Blow Molding Applications Compounding Profiles
Agency Ratings	EC 1907/2006 (REACH) FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding Compounding Extrusion Extrusion Blow Molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength <sup>1</sup> (Yield, Injection Molded)	33.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	48	J/m	ASTM D256
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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