

Formolene® 4101O

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

Message:

Homopolymer for BCF Fiber Spinning
Formolene® 4101O is a low viscosity, highly isotactic, polypropylene homopolymer designed primarily for multifilament and bulk continuous filament fiber. It contains a unique combination of stabilizers, which give it excellent gas fading resistance and appropriate process stability.
Formolene® 4101O 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	
UL YellowCard	E205741-100038305
Additive	Unspecified Stabilizer
Features	Food Contact Acceptable
	Gas-fading Resistant
	Good Processing Stability
	High Isotactic
	Homopolymer
	Low Viscosity
Uses	BCF Multifilaments
	Fibers
	Filaments
Agency Ratings	EC 1907/2006 (REACH)
Forms	Pellets
Processing Method	Filament Extrusion
	Filament Winding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	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 ¹ (Yield, Injection Molded)	33.1	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact (23°C, Injection Molded)	27	J/m	ASTM D256
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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