

Formolene® 5100H

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

Homopolymer for Strapping

Formolene® 5100H is a high molecular weight polypropylene homopolymer designed for various extrusion applications, notably strapping. It contains a unique combination of stabilizers and additives, which provides excellent processability and good end use performance.

Formolene® 5100H 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	Strapping		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.2	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)	34.5	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1380	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

