

Formolene® 4143T

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

Homopolymer for Injection Molded Applications

Formolene® 4143T is a highly isotactic polypropylene for use in injection molded applications including cutlery and thin wall components. It contains a unique combination of stabilizers and additives, which provides excellent processability and good end use performance. It has increased mold release for good handling of components.

Formolene® 4143T 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	Mold Release		
Features	Food Contact Acceptable		
	Good Mold Release		
	Good Processability		
	High Isotactic		
	Homopolymer		
Uses	Kitchenware		
	Thin-walled Parts		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	40.0	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	6.5	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1860	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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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

