

Formolene® 5143H

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

Message:

Formolene 5143 H is a high viscosity homopolymer designed primarily for thermoformed cups and container applications. It contains a unique combination of stabilizers, nucleators and antistats that give it an excellent balance of stiffness and impact strength and high clarity. Formolene 5143 H offers an advantage in processing over current polypropylenes used for thermoforming, which includes a broader forming window and faster setup time. Formolene 5143 H 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	Antistatic		
	Heat Stabilizer		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	Heat Stabilized		
	High Clarity		
	High Impact Resistance		
	High Stiffness		
	High Viscosity		
	Homopolymer		
	Nucleated		
Uses	Containers		
	Cups		
	Non-specific Food Applications		
	Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.5	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	37.9	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1830	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	116	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze (25.4 µm)	18	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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