

Formolene® 5143N

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

Formolene® 5143N is a higher melt flow polypropylene homopolymer designed for faster cycle time and excellent clarity. It contains a unique combination of stabilizers and nucleation that provide an excellent balance of stiffness and impact strength. Formolene® 5143N does not contain animal derived ingredients, and is suitable for high temperature food processing and preparation.

Formolene® 5143N 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. Additionally, it meets FDA requirements regarding retort food processing.

General Information			
Additive	Nucleating Agent		
	Processing Stabilizer		
Features	Balanced Stiffness/Toughness		
	Fast Molding Cycle		
	High Clarity		
	High Flow		
	High Impact Resistance		
Uses	Household Goods		
	Non-specific Food Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	38.6	MPa	ASTM D638
Tensile Elongation ² (Yield)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant ³	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	118	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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