



Formolene® 5143C

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 5143C is a polypropylene homopolymer designed for sheet and thermoforming applications, which require exceptional clarity. It contains a unique combination of stabilizers, nucleators and anti-stats that give it an excellent balance of stiffness and impact strength.

Formolene® 5143C offers advantages in processing over other polypropylenes used for thermoforming, including a broad forming window and fast setup time. It has been created for applications requiring higher clarity and lower haze than the 5143H grade offered by Formosa.

Formolene® 5143C meets the 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.

This material is free of animal-derived content.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic	• Nucleating Agent	
Features	• Antistatic • Food Contact Acceptable • Good Impact Resistance	• Good Stiffness • High Clarity • Homopolymer	• No Animal Derived Components • Nucleated
Uses	• Sheet • Thermoforming Applications		
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion • Thermoforming		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	2.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	5370	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	250000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	0.69	ft·lb/in	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Injection Molded	241	°F	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 0.051 in/min

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