

Formolene® 5143C

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

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

General Information			
Additive	Antistatic Nucleating Agent		
Features	Antistatic Food Contact Acceptable Good Impact Resistance Good Stiffness High Clarity Homopolymer Nucleated		
Uses	Sheet		
Agency Ratings	EC 1907/2006 (REACH) FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion 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)	2.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	36.5	MPa	ASTM D638
Tensile Elongation ² (Yield)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³	1650	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)	116	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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