



Formolene® 5144H

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 5144H is a highly isotactic polypropylene homopolymer designed for consumer products and appliance applications requiring long-term heat-aging resistance and flexural endurance.

Formolene® 5144H has earned a UL continuous service rating of 65°C with recognition for typical use in laundry equipment.

This material is free of animal-derived content.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Flexibility • Heat Aging Resistant	• High Isotactic • Homopolymer	• No Animal Derived Components
Uses	• Appliances	• Consumer Applications	
Agency Ratings	• EC 1907/2006 (REACH)		
Forms	• Pellets		

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)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	4930	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	210000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	0.99	ft-lb/in	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Injection Molded	212	°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