



Formosa Plastics®

Formolene® PP

Formolene® 5144L

Homopolymer for Injection Molded Applications requiring Heat Resistance

Formolene® 5144L is a highly isotactic, nucleated polypropylene homopolymer designed for consumer products and appliance applications that require high stiffness and long-term exposure to elevated temperatures. It has found success in home laundry and dishwasher applications.

Formolene® 5144L has earned a UL continuous service rating of 115 °C.

This material is free of animal-derived content.

Typical Properties of this Commercial Grade

Property	Test Method	Typical Values	
		English	SI
Melt Flow Rate, I ₂ @ 230°C	ASTM D1238	5.0 g/10 min	5.0 g/10 min
Density	ASTM D1505	0.9 g/cm ³	0.9 g/cm ³
Tensile Strength at Yield (50 mm/min)	ASTM D638	5,800 psi	40 MPa
Elongation at Yield (50 mm/min)	ASTM D638	5.5 %	5.5 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	290,000 psi	1999 MPa
Rockwell Hardness	ASTM D785	115 R Scale	115 R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	0.5 ft-lb/in	27 J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	257 °F	125 °C
Heat Deflection Temperature @ 264 psi	ASTM D648	151 °F	66 °C

Note: Specimens were injection molded according to the conditions specified in ASTM D4101.

Data for representative purposes only; not to be construed as product specification. Published 6/04, Revised 3/18

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3 • Fax: (973) 422-7772

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting the results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. The responsibility of FORMOSA PLASTICS CORPORATION, U.S.A. for claims arising out of breach of warranty, negligence, strict liability or otherwise is limited to the purchase price of the material. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

© Formosa Plastics Corporation, U.S.A.

Formolene® is a registered trademark of FPC USA

10/15

