

## Formosa Plastics Formolene® 5144L Homopolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

**Material Notes:**

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. 5144L has earned a UL continuous service rating of 115 °C. Specimens were injection molded according to the conditions specified in ASTM D4101 Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Formosa-Plastics-Formolene-5144L-Homopolymer-Polypropylene.php](http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-5144L-Homopolymer-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	5.0 g/10 min @Temperature 230 °C	5.0 g/10 min @Temperature 446 °F	1<sub>2</sub>; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	40.0 MPa	5800 psi	2" (50mm) per min; ASTM D638
Elongation at Yield	5.5 %	5.5 %	2" (50mm) per min; ASTM D638
Flexural Modulus	2.00 GPa	290 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.267 J/cm @Temperature 23.0 °C	0.500 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	ASTM D648

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