

Formosa Plastics Formolene® 5144H Homopolymer Polypropylene

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

Material Notes:

Homopolymer for Appliance Applications Formolene® 5144H is a highly isotactic polypropylene homopolymer designed for consumer products and appliance applications requiring long-term heat-aging resistance and flexural endurance. 5144H has earned a UL continuous service rating of 65°C with recognition for typical use in laundry equipment. 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-5144H-Homopolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	2.0 g/10 min @Temperature 230 °C	2.0 g/10 min @Temperature 446 °F	1₂; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	2" (50mm) per min; ASTM D638
Elongation at Yield	10 %	10 %	2" (50mm) per min; ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 23.0 °C	1.00 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648

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