

Formosa Plastics Formolene® HB5502S1 Sheet and Thermoforming HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Sheet/Thermoforming Grade

Material Notes:

High Density Polyethylene Hexene Copolymer Applications: Molded or formed industrial housings and parts, tanks, shrouds. Formolene HB5502S1 HDPE resin is designed for applications requiring excellent stiffness and stress crack resistance properties. It may be used as a blow molding resin or sheet extrusion thermoforming resin. Produced using licensor formulation for HHM 5502-01 ST. Licensor does not warrant or imply that this product meets their specifications for HHM 5502-01 ST. Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. Nominal properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928. Physical properties are typical of product but do not reflect normal testing variance and therefore should not be used for specification purposes. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HB5502S1-Sheet-and-Thermoforming-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	35 hour	35 hour	Condition B, F _{>50} ; ASTM D1693
	45 hour	45 hour	Condition A (100% Igepal), F _{>50} ; ASTM D1693
Melt Flow	0.25 g/10 min	0.25 g/10 min	Condition E; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.6 MPa	4000 psi	2" (50mm) per min.; ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	2" (50mm) per min.; ASTM D638 Type IV
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -84.4 °C	<= -120 °F	ASTM D746

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