

Formosa Plastics Formolene® HL5010 Blow Molding HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Extra High Molecular Weight Hexene Copolymer Applications: Blow Molding 55-gallon shipping containers, gasoline tanks, agricultural chemical tanks; Extruded pallets, cattle feeders, large formed parts, boats

Formolene HL5010 has good melt strength, excellent stress crack resistance, good rigidity, and excellent impact strength even at low temperatures. These properties make HL5010 an excellent resin for large part blow molding applications. Produced using licensor formulation for HXM 50100. Licensor does not warrant or imply that this product meets their specifications for HXM 50100. 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-HL5010-Blow-Molding-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 600 hour	>= 600 hour	Condition A (100% Igepal), F ₅₀ ; ASTM D1693
	>= 600 hour	>= 600 hour	Condition B (10% Igepal), F ₅₀ ; ASTM D1693
High Load Melt Index	10 g/10 min @Load 21.6 kg, Temperature 190 °C	10 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.8 MPa	3600 psi	2" (50mm) per min.; ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	2" (50mm) per min.; ASTM D638 Type IV
Flexural Modulus	1.17 GPa	170 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -90.6 °C	<= -131 °F	ASTM D746

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