



Formosa Plastics®

Formolene® HDPE

Formolene® HL5010

(Produced using licensor formulation for HXM 50100)
Extra High Molecular Weight Hexene Copolymer

Formolene® HL5010 has good melt strength, excellent stress crack resistance, good rigidity, and excellent impact strength even at low temperatures. These properties make Formolene® HL5010 an excellent resin for large part blow molding applications.

Formolene® HL5010 meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

- | | |
|-------------------------------|--------------------|
| <i>Blow Molded...</i> | <i>Extruded...</i> |
| 55-Gallon Shipping Containers | Pallets |
| Gasoline Tanks | Cattle Feeders |
| Agricultural Chemical Tanks | Large Formed Parts |
| | Boats |

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.949	g/cc	0.949
HLMI, Condition F, 190°C/21.60 kg	D1238	g/10 min.	10.0	g/10 min.	10.0
Environmental Stress Crack Resistance (ESCR)					
Condition A, (100% Igepal), F ₅₀	D1693	h	>600	h	>600
Condition B (10% Igepal), F ₅₀	D1693	h	>600	h	>600
Tensile Yield Strength,	D638				
2" (50 mm) per min.	Type IV	psi.	3600	MPa	25
Ultimate Elongation	D638				
2" (50 mm) per min.	Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-131 F	°C	<-91
Flexural Modulus	D790	psi.	170,000	MPa	1172

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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ISO 9001:2008
FS 70459
FM 31429



ISO 14001:2004
EMS 35710

