

## Icelene HLE50100 High Density Polyethylene Resin

**Applications:**

Industrial Drums

**PRODUCT DESCRIPTION**

HLE50100 is a certified prime grade Hexene copolymer High Molecular Weight developed for BLOW MOLDING of high performance medium to large size industrial containers. The resin has superior crack resistance, high impact strength and good rigidity. HLE50100 complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

Properties*	Test Method	Metric Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index <sup>2</sup>	ASTM D1238	<0.10	g/10 min.	<0.10	g/10 min.
High Load Melt Flow Index <sup>2</sup>	ASTM-D1238	10.0	g/10 min.	10.0	g/10 min.
Density (23°C)	ASTM D792	0.949	g/cm <sup>3</sup>	0.949	g/cm <sup>3</sup>
<b>Thermal</b>					
Brittleness Temperature	ASTM D746	<-76	°C	<-105	°F
Vicat Softening Temperature	ASTM D1525	120	°C	248	°F
<b>Molded Properties</b>					
Tensile Strength at Yield	ASTM D638	26	Mpa	3800	psi
Flexural Modulus	ASTM D790	1200	Mpa	18000	psi
ESCR 100% Igepal		>800 Hr		>800 Hr	
Tensile Impact Strength (23 °C )	ASTM D1822	250	kg/m <sup>2</sup>	120	ft-lb/in <sup>2</sup>

\* Typical Value of Properties which can vary with in specification limits and are not to be construed as specifications.

<sup>2</sup> Condition 190°C/2.16 kg.

This product is not intended for use in medical applications and should not be used in any such applications.

This product is not intended for use in fuel systems, portable fuel tank, and sma;; engine fuel tank applications.

The technical information, suggested uses and applications presented are made without charge and are believed to be reliable; however, ICD America LLC disclaims responsibility for reliance and results of use of this information. ICD AMERICA LLC DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT(S) DESCRIBED HEREINABOVE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ICD America LLC expressly disclaims any statements or suggestions as being inducement. All users should rely upon their own knowledge and testing in determining product suitability.