ICELENE

Technical Data Sheet

Icelene HLE50100
High Density Polyethylene Resin

Applications:

Industrial Drumms

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 stregnth 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.

		Metric Units		English	
Properties*	**Test Method**	**Typical Value**	**Unit**	**Typical Value**	**Unit**
Melt Flow Index[2]	ASTM D1238	<0.10	g/10 min.	<0.10	g/10 min
High Load Melt Flow Index[2]	ASTM-D1238	10.0	g/10 min.	10.0	g/10 min.
Density (23°C)	ASTM D792	0.949	g/cm³	0.949	g/cm³
Thermal					
Brittleness Temperature	ASTM D746	<-76	ºC	<-105	ºF
Vicat Softening Temperature	ASTM D1525	120	ºC	248	ºF
Molded Properties					
Tensile Strengh 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 Strengh (23 ºC)	ASTM D1822	250	kg/m²	120	ft-lb/in²

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

2 Condition 190°C/2.16 kg.

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

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