

ICELENE HB0451

High Density Polyethylene

PRODUCT DESCRIPTION

ICELENE HB0451 is produced using UNIPOL process technology with excellent ESCR rigidity and high impact strength. It is designed for high speed production of blow molded containers used to package household industrial chemicals, toileteries and cosmetics. It can be blow molded into other thin walled parts, houseware items and extruded profiles .ICELENE HB0451 is cleared for use in articles or components of articles intended for contact with food under 21 CFR 177.1520(c) and meets the specifications in that paragraph.

Properties*	Test Method	Metric Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index (190°C/2.16Kg)	ASTM D1238	0.38	g/10 min.	0.38	g/10 min
Melt Flow Index (190°C/21.6Kg)	ASTM D1238	33	g/10 min.	33	g/10 min
Density (23°C)	ASTM D1505	0.953	g/cm ³	0.953	g/cm ³
Enviromental Stress Crack Resistance (ESCR)					
122°F (50°C), F ₅₀ (100% Igepal)	ASTM D1693	80	hr	80	hr
Tensile Strength,	ASTM D638				
Yield		26.9	Mpa	3900	psi
Break		31	Mpa	4500	psi
Tensile Elongation,	ASTM D638				
Yield		7	%	7	%
Break		1000	%	1000	%
Brittleness Temperature	ASTM D746	<-76.1	°C	<-105	°F
Flexural Modulus	ASTM D790B	1000	MPa	145,000	psi.

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928. The nominal properties reported herin are typical of the product but do not reflect normal testing variance and therefore should not be used for specification

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