



ICELENE HB3054

High Density Polyethylene

PRODUCT DESCRIPTION

ICELENE HB3054 is a certified prime High Density Blow Molding resin that exhibits excellent processability and environmental stress crack resistance. It is recommended for household chemicals, food and personal care products blow molding resin or sheet extrusion thermoforming resin. ICELENE HB3054 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*	ASTM Test Method	Metric Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index (190 °C/2.16kg)	D1238	0.3	g/10 min.	0.3	g/10 min
Density (23°C)	D1505	0.954	g/cc	0.954	g/cc
Flexural Modulus (1% Secant)	D790	1310	Mpa	190000	psi
Tensile Strength at Yield	D638	27.6	Mpa	4000	psi
Tensile Elongation at Break	D638	>1000	%	>1000	%
Environmental Stress Crack Resistance Condition B, F ₅₀ (100% Igepal)	D1693	200	hr	200	hr
Tensile Impact strength	D1822	294	kJ/m ²	140	ft-lb/in ²
Shore Hardness (Shore D0)	D2240	68		68	
Vicat Softening Point	D1525	126	°C	259	°F
Low Temperature Brittleness F	D746	<-76	°C	<-105	°F
Deflection Temperature under load (66 psi, Unannealed	D648	66	°C	151	°F

* 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.

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