

ICELENE HBF5502

High Density Polyethylene

PRODUCT DESCRIPTION

ICELENE HBF5502 is produced using licensior formulation for HHM 5502BN Blow Molding Hexene copolymer is designed for applications requiring excellent stiffness and stress crack resistance properties. intended for use as a general-purpose blow molding resin or sheet extrusion thermoforming resin. ICELENE HBF5502 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 ⁽²⁾	ASTM D1238	0.35	g/10 min.	0.35	g/10 min
Density (23°C)	ASTM D1505	0.955	g/cc	0.955	g/cc
Enviromental Stress Crack Resistance (ESCR)					
Condition A, F ₅₀ (100% Igepal)	ASTM D1693	45	h	45	h
Condition B, F ₅₀	ASTM D1693	35	h	35	h
Tensile Yield Strength,	ASTM D638				
2" (50 mm) per min.	Type IV	28	Mpa	4000	psi
Ultimate Elongation,	ASTM D638				
2" (50 mm) per min.	Type IV	>600	%	>600	%
Brittleness Temperature	ASTM D746	<-180	C	<-180	F
Flexural Modulus	ASTM D790	1378	MPa	200,000	psi.

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