

ICELENE HD6050

High Molecular Weight High Density Polyethylene

PRODUCT DESCRIPTION

ICELENE HD6050 is a high molecular weight high density copolymer that provides broad high molecular weight distribution , high stiffness and good heat seal response and strength. Suggested application merchandise bags, grocery sacks, trash liners and produce bags and roll stock.

Properties*	Test Method	Metric Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index (2)	ASTM D1238	0.06	g/10 min.	0.06	g/10 min
Density (23°C)	ASTM D1505	0.949	g/cm ³	0.949	g/cm ³
Dart Drop impact Strength, F50	ASTM D1709	340	g	340	g
Tensile Strength at Break					
MD	ASTM D882	84.1	MPa	12200	psi
TD	ASTM D882	57.2	MPa	8300	psi
Tensile Yield Strength,					
MD	ASTM D882	34.5	MPa	5000	psi
TD	ASTM D882	29	MPa	4200	psi
Tensile Elongation at Break					
MD	ASTM D882	320	%	320	%
TD	ASTM D882	390	%	390	%
Scant Modulus					
MD	ASTM D882	945	MPa	137000	psi
TD	ASTM D882	1050	MPa	152000	psi
Elemedorf Tear Strength					
MD	ASTM D1922	11	g	11	g
TD	ASTM D1922	76	g	76	g

Film data obtained from sample produced on an Alpine 200 mm line equipped with a three layer die(40/35/25), Three extruders (65mm/75mm/50mm) internal bubble cooling, due gap of 1.5mm , neck height of 8x DD, blow up ratio of 4:1, film thickness of 0.8 mil and operating at 500 lbs/hr
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 purposes.

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