



Smooth HDPE Geomembrane

Introduction:

CMAX series of geomembrane is manufactured from High Density Polyethylene Resins. The surface of both sides are smooth.

The products are manufactured by the technology of coextrusion-blown triple layer.



Performance:

Excellent physical and mechanical performance, high tearing resistance; good deformation adaptability, high puncture resistance;

High aging resistance, high UV resistance, anti-acid & alkali

Excellent low & high temperature resistance, innocuous, long life span;

Perfect water proof performance, seepage and humidity resistance.

Specification:

<u>Properties</u>	<u>Test Method</u>	<u>SH050</u>	<u>SH075</u>	<u>SH100</u>	<u>SH125</u>
Thickness	ASTM D5199	0.5mm	0.75mm	1.00mm	1.25mm
Density	ASTM D1505	0.940g/cc	0.940g/cc	0.940g/cc	0.940g/cc

Tensile Properties:

Yield Strength		9 KN/m	11 KN/m	15 KN/m	18 KN/m
Break Strength	ASTM D6693	17 KN/m	20 KN/m	27 KN/m	33 KN/m
Yield Elongation	Type IV	12%	12%	12%	12%
Break Elongation		700%	700%	700%	700%
Tear Resistance	ASTM D1004	80 N	93 N	125 N	156 N
Puncture Resistance	ASTM D4833	200 N	240 N	320 N	400 N
Stress Crack Resistance	ASTM D5397 (App.)	300 hr.	300 hr.	300 hr.	300 hr.
Carbon Black Content	ASTM D1603	2.0%	2.0%	2.0%	2.0%
Carbon Black Dispersion	ASTM D5596	Note(1)	Note(1)	Note(1)	Note(1)
Oxidative Induction Time	ASTM D3895	100 min.	100 min.	100 min.	100 min.

Dimensions:

Roll Width (m)	6	6	6	6
Roll Length (m)	420	280	210	168

Contact: Candice Liu

Add: Floor 17-18th, No.4 Building, Zhuyu International Commercial Center Shouti South Road, Haidian District, Beijing, 100044. China.

Email: candiceliu@icnbn.com Msn: cnbmliu@hotmail.com Product web site: www.igrctech.com



Properties	Test Method	SH150	SH200	SH250	SH300
Thickness	ASTM D5199	1.5mm	2.00mm	2.50mm	3.00mm
Density	ASTM D1505	0.940g/cc	0.940g/cc	0.940g/cc	0.940g/cc

Tensile Properties:

Yield Strength		22 KN/m	29 KN/m	37 KN/m	44 KN/m
Break Strength	ASTM D6693	40 KN/m	53 KN/m	67 KN/m	80 KN/m
Yield Elongation	Type IV	12%	12%	12%	12%
Break Elongation		700%	700%	700%	700%
Tear Resistance	ASTM D1004	187 N	249 N	311 N	374 N
Puncture Resistance	ASTM D4833	480 N	640 N	800 N	960 N
Stress Crack Resistance	ASTM D5397 (App.)	300 hr.	300 hr.	300 hr.	300 hr.
Carbon Black Content	ASTM D1603	2.0%	2.0%	2.0%	2.0%
Carbon Black Dispersion	ASTM D5596	Note(1)	Note(1)	Note(1)	Note(1)
Oxidative Induction Time	ASTM D3895	100 min.	100 min.	100 min.	100 min.

Dimensions:

Roll Width (m)	6	6	6	6
Roll Length (m)	140	105	84	70

(1) Carbon black dispersion(only near spherical agglomerates) for 10 different views:
9 in Categories 1 or 2 and 1 in category 3

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