



Huikwang Corporation

HD SERIES – Smooth High Density Polyethylene Geomembrane

HUITEX® HD Series geomembrane is made of premium virgin HDPE resin designed specifically for geomembrane production along with adequate carbon black, antioxidant, and stabilizers to have superior mechanical properties and outstanding long-term resistance to aggressive chemical, environmental stress crack, and UV radiation.

Product Specifications

Property	Test Method	Minimum Values						
		HD050	HD075	HD100	HD150	HD200	HD250	HD300
Thickness, mm	ASTM D5199							
Average values		0.50	0.75	1.00	1.50	2.00	2.50	3.00
Lowest Individual Reading		0.45	0.67	0.90	1.35	1.80	2.30	2.70
Density, g/cm ³	ASTM 1505/D792	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Properties (1):	ASTM D6693 Type IV specimen @ 50 mm/min							
1.Strength at Yield, kN/m		9	11	16	25	34	40	44
2.Strength at Break, kN/m		14	22	30	46	61	76	85
3.Elongation at Yield, %		13	13	13	13	13	13	13
4.Elongation at Break, %		700	750	750	750	750	750	750
Tear Resistance, N	ASTM D1004	73	100	138	210	275	330	374
Puncture Resistance, N	ASTM D4833	200	300	400	550	730	900	1100
SP-NCTL Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	400	400	400	400	400	400	400
Carbon Black Content, %	ASTM D1603	2-3	2-3	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	note(2)	note(2)	note(2)	note(2)	note(2)	note(2)	note(2)
		Nominal Values						
Dimensional Stability, %	ASTM D1204 (100 ; 1 hour)	±2	±2	±2	±2	±2	±2	±2
Low Temperature Brittleness,	ASTM D746	<-77	<-77	<-77	<-77	<-77	<-77	<-77
Oxidative Induction Time, mins	ASTM D 3895 (200 ; O ₂ , 1 atm)	>120	>120	>120	>120	>120	>120	>120
Roll Width, m								
Roll Length, m		420	280	210	140	105	84	70
Roll Area, m ²		2940/ -	1960/2240	1470/1680	980/1120	735/840	588/ -	490/ -
Weight/Roll, kg		1397/ -	1397/1596	1397/1596	1397/1596	1397/1596	1397/ -	1397/ -
40' Container, roll		16	16	16	16	16	16	16

www.huitex.com . geo@huitex.com

17-10 Ling Tzzy Lin, Matou Dist, Tainan 721, Taiwan

Phone: +886-6-570-2181

Fax: +886-6-570-0065





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NOTES:

(1). Machine direction (MD) and cross machine direction (XMD) average values should be on basis of 5 test specimens each direction.

Yield elongation is calculated using a gauge length of 33 mm.

Break elongation is calculated using a gauge length of 50 mm.

(2). Carbon black dispersion for 10 different views: all 10 in Categories 1 or 2.

This information is provided for reference purpose only and is not as a warranty or guarantee. Huikwang Corporation. reserves the right to change the specification contained herein without notice.

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