HUITEX HDPE SMOOTH GEOMEMBRANE – GM13

Properties	Test Method	HD/HP075	HD/HP100	HD/HP150	HD/HP200	HD250	HD300
Thickness, mm							
Average values	ASTM D5199	0.75	1.00	1.50	2.00	2.50	3.00
Lowest Individual Reading		0.67	0.90	1.35	1.80	2.25	2.70
Sheet density, g/cm^3	ASTM D792	0.940	0.940	0.940	0.940	0.940	0.940
Melt Index, 190/2.16, g/10min	ASTM D1238	<1	<1	<1	<1	<1	<1
Tensile Properties:(1)	ASTM D6693 Type IV specimen						
1.Strength at Yield, kN/m	@ 50 mm/min	11	15	22	29	37	44
2.Strength at Break, kN/m		20	27	40	53	67	80
3.Elongation at Yield, %	G.L. = 33 mm	12	12	12	12	12	12
4.Elongation at Break, %	G.L. = 50 mm	700	700	700	700	700	700
Tear Resistance, N	ASTM D1004	93	125	187	249	311	374
Puncture Resistance, N	ASTM D4833	240	320	480	640	800	960
Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	500	500	500	500	500	500
Carbon Black Content, %	ASTM D1603	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)
Oxidative Induction Time, mins	ASTM D3895	100	100	100	100	100	100
Oven Aging at 85℃ Standard OIT, %	ASTM D5721 ASTM D3895	55	55	55	55	55	55
UV resistance High Pressure OIT, %	ASTM D7238 ASTM D5885	50	50	50	50	50	50
Roll Width, m		7/8	7/8	7/8	7/8	7	7
Roll Length, m		280	210	140	105	84	70
Roll Area, m^2		1960/2240	1470/1680	980/1120	735/840	588	490

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.

- All values are nominal test results, except as minimum or maximum when specified.

This specification is intended as guides only and is not intended as a warranty or guarantee. Huikwang Corporation assumes no liability in connection with the use of this information. Huikwang Corporation reserves the right to change the specification contained herein without notice.

Ver.12:2022

HUITEX®
259 Section 1 Majia Road, Madou, Tainan 721010, Taiwan
Phone: +886-6-570-2181 Fax: +886-6-570-0065
www.huitex.com geo@huitex.com