

HUITEX HDPE SINGLE SIDE TEXTURED GEOMEMBRANE – GM13

Properties	Test Method	HS075	HS100	HS150	HS200	HS250
Thickness, mm Average values	ASTM D5994	0.71	0.95	1.43	1.90	2.38
Asperity Height, mm	ASTM D7466	0.40	0.40	0.40	0.40	0.40
Sheet density, g/cm ³	ASTM D792	0.94	0.94	0.94	0.94	0.94
Melt Index, 190/2.16, g/10min	ASTM D1238	<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
2.Strength at Break, KN/m		8	10	16	21	26
3.Elongation at Yield, %	G.L. = 33 mm	12	12	12	12	12
4.Elongation at Break, %	G.L. = 50 mm	100	100	100	100	100
Tear Resistance, N	ASTM D1004	93	125	187	249	311
Puncture Resistance, N	ASTM D4833	200	267	400	534	667
Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	500	500	500	500	500
Carbon Black Content, %	ASTM D1603	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)
Oxidative Induction Time, mins	ASTM D8117	100	100	100	100	100
Oven Aging at 85°C	ASTM D5721	55	55	55	55	55
Standard OIT, %	ASTM D8117					
UV resistance ⁽³⁾	ASTM D7238	50	50	50	50	50
High Pressure OIT, %	ASTM D5885					
Roll Width, m		8	8	8	8	7
Roll Length, m		225	170	128	98	76
Roll Area, m ²		1800	1360	1024	784	532

NOTES:

(*) All values are Minimum average value unless otherwise specified.

(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.

(3). UV resistance is base on percent retained value regardless of original High pressure-OIT value.

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.13:2023