

TECHNICAL DATA SHEET

HUITEX HDPE SMOOTH WHITE/BLACK GEOMEMBRANE- ENHANCED GM13

Properties	Test Method	HD150B/W	HD200B/W	HD250B/W
		HP150B/W	HP200B/W	
Thickness, mm				
Average values	ASTM D5199	1.50	2.00	2.50
Lowest individual of 10 values		1.35	1.80	2.25
Sheet density, g/cm ³	ASTM D792	0.940	0.940	0.940
Tensile Properties: ⁽¹⁾	ASTM D6693 Type IV specimen			
1.Strength at Yield, KN/m	@ 50 mm/min	22	29	37
2.Strength at Break, KN/m		40	53	67
3.Elongation at Yield, %	G.L. = 33 mm	12	12	12
4.Elongation at Break, %	G.L. = 50 mm	700	700	700
Tear Resistance, N	ASTM D1004	187	249	311
Puncture Resistance, N	ASTM D4833	480	640	800
Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	500	500	500
Carbon Black Content, %	ASTM D1603	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	note(2)	note(2)	note(2)
Oxidative Induction Time, mins				
- Standard OIT	ASTM D8117	100	100	100
- High Pressure OIT	ASTM D5885	400	400	400
Oven Aging at 85°C	ASTM D5721			
- Standard OIT, %	ASTM D8117	55	55	55
- High Pressure OIT	ASTM D5885	80	80	80
UV resistance	ASTM D7238			
High Pressure OIT, %	ASTM D5885	50	50	50
Roll Width, m		7/8	7/8	7
Roll Length, m		140	105	84
Roll Area, m ²		980/1120	735/840	588

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.

** Carbon Black Content, Carbon Black Dispersion, OIT, Density only for the Middle layer, White layer doesn't include in the measurement.

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