

## HUITEX HDPE SMOOTH CONDUCTIVE GEOMEMBRANE, ENHANCED GM13

Properties	Test Method	HD/HP150	HD/HP200	HD250
Thickness, mm				
Average values	ASTM D5199	1.50	2.00	2.50
Lowest reading value		1.35	1.80	2.25
Sheet density, g/cm <sup>3</sup>	ASTM D792	0.94	0.94	0.94
Melt Index, 190/2.16, g/10min	ASTM D1238	<1	<1	<1
Tensile Properties: <sup>(1)</sup>	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, <sup>(2)</sup>	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	50	50	50
High Pressure OIT, %	ASTM D5885	50	50	50
Surface resistivity, <sup>(3)</sup> ohms/sqm	ASTM D257	<1x10 <sup>5</sup>	<1x10 <sup>5</sup>	<1x10 <sup>5</sup>
Roll Width, m		7/8	7/8	7
Roll Length, m		140	105	84
Roll Area, m <sup>2</sup>		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. The carbon black content of conductive layer is higher than 3%.

(3). Test by Megohmmeter Direct-Reading.

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