

HUITEX HDPE SMOOTH GEOMEMBRANE- ENHANCED GM13

Properties	Test Method	HD/HP100	HD/HP150	HD/HP200	HD250
Thickness, mm Average values	ASTM D5199	1.00	1.50	2.00	2.50
Sheet density, g/cm ³	ASTM D792	0.940	0.940	0.940	0.940
Melt Index, 190/2.16, g/10min	ASTM D1238	<1	<1	<1	<1
Tensile Properties: ⁽¹⁾	ASTM D6693 Type IV specimen				
1.Strength at Yield, KN/m	@ 50 mm/min	15	22	29	37
2.Strength at Break, KN/m		27	40	53	67
3.Elongation at Yield, %	G.L. = 33 mm	12	12	12	12
4.Elongation at Break, %	G.L. = 50 mm	700	700	700	700
Tear Resistance, N	ASTM D1004	125	187	249	311
Puncture Resistance, N	ASTM D4833	320	480	640	800
Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	500	500	500	500
Carbon Black Content, %	ASTM D1603	2-3	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	note(2)	note(2)	note(2)	note(2)
Oxidative Induction Time, mins					
- Standard OIT	ASTM D8117	100	100	100	100
- High Pressure OIT	ASTM D5885	400	400	400	400
Oven Aging at 85°C	ASTM D5721				
- Standard OIT, %	ASTM D8117	55	55	55	55
- High Pressure OIT	ASTM D5885	80	80	80	80
UV resistance ⁽³⁾	ASTM D7238	50	50	50	50
High Pressure OIT, %	ASTM D5885				
Roll Width, m		7/8	7/8	7/8	7
Roll Length, m		210	140	105	84
Roll Area, m ²		1470/1680	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.

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

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