

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
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 D8117	100	100	100	100	100	100
Oven Aging at 85°C	ASTM D5721	55	55	55	55	55	55
Standard OIT, %	ASTM D8117						
UV resistance ⁽³⁾	ASTM D7238	50	50	50	50	50	50
High Pressure OIT, %	ASTM D5885						
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:

(*) 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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