

HUITEX HDPE DOUBLE SIDE TEXTURED ENHANCED GEOMEMBRANE

Properties	Test Method	HX075	HX100	HX150	HX200	HX250
Nominal Thickness, mm (1)		0.75	1.00	1.50	2.00	2.50
Average values	ASTM D5994	0.71	0.95	1.43	1.90	2.38
Lowest Individual Reading		0.64	0.85	1.28	1.70	2.13
Asperity Height (2)	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:	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(3)	note(3)	note(3)	note(3)	note(3)
Oxidative Induction Time, mins						
- Standard OIT	ASTM D3895	100	100	100	100	100
- High Pressure OIT	ASTM D5885	400	400	400	400	400
Oven Aging at 85°C						
- Standard OIT, %	ASTM D5721	55	55	55	55	55
- High Pressure OIT	ASTM D3895	80	80	80	80	80
UV resistance	ASTM D7238					
High Pressure OIT, %	ASTM D5885	50	50	50	50	50
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:

- (1). Lowest thickness for 8 out of 10 values is -10% of the nominal value; lowest thickness for any of the 10 value is -15% of the nominal thickness.
- (2). Alternate the measurement side for double side textured sheet.
- (3). Carbon black dispersion for 10 different views: all 10 in Categories 1 or 2.

- All values are nominal test results, except as minimum or maximum when specified.

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