



HUITEX HDPE HD Smooth Geomembrane

		Standard Values						
Property	Test Method	50	75	100	150	200	250	300
Thickness, mm	ASTM D5199							
Minimum Average Values		0.50	0.75	1.00	1.50	2.00	2.50	3.00
Lowest Individual Reading		0.45	0.67	0.90	1.35	1.80	2.25	2.70
Density, g/cm ³ (min)	ASTM D792	0.940	0.940	0.940	0.940	0.940	0.940	0.940
Tensile Properties(each direction)	ASTM D6693 Type IV specimen @ 50 mm/min							
1.Strength at Yield, kN/m width		8	11	16	23	32	40	46
2.Strength at Break, kN/m width		14	22	30	45	60	75	85
3.Elongation at Yield, %		G.L.33mm 12	12	12	12	12	12	12
4.Elongation at Break, %		G.L.50mm 700	700	700	700	700	700	700
Tear Resistance, N	ASTM D1004	70	100	140	220	290	360	400
Puncture Resistance, N	ASTM D4833	180	280	380	530	680	830	980
SP-NCTL Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	500	500	500	500	500	500	500
Carbon Black Content, %	ASTM D1603	2-3	2-3	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	note(1)	note(1)	note(1)	note(1)	note(1)	note(1)	note(1)
Dimensional Stability, %	ASTM D1204 (100°C ; 1 hour)	±2	±2	±2	±2	±2	±2	±2
Low Temperature Brittleness,°C	ASTM D746	<-77	<-77	<-77	<-77	<-77	<-77	<-77
Oxidative Induction Time, min	ASTM D3895 (200°C ; O ₂ , 1atm)	>100	>100	>100	>100	>100	>100	>100
Roll Width, m		7	7/8	7/8	7/8	7/8	7	7
Roll Length, m		420	280	210	140	105	84	70

HUITEX HDPE HS/HX Textured Geomembrane

		Standard Values				
Property	Test Method	75	100	150	200	250
Thickness, mm (2)	ASTM D5994					
Minimum Average Values		0.75	1.00	1.50	2.00	2.50
Lowest Individual Reading		0.64	0.85	1.28	1.70	2.13
Asperity Height ² , mm (average value)	ASTM D7466	0.40	0.40	0.40	0.40	0.40
Density, g/cm ³ (min)	ASTM D792	0.940	0.940	0.940	0.940	0.940
Tensile Properties(each direction)	ASTM D6693 Type IV specimen @ 50 mm/min					
1.Strength at Yield, kN/m width		11	15	23	30	38
2.Strength at Break, kN/m width		8	13	16	21	27
3.Elongation at Yield, %		G.L.33mm 12	12	12	12	12
4.Elongation at Break, %		G.L.50mm 150	150	150	150	150
Tear Resistance, N	ASTM D1004	98	135	200	250	312
Puncture Resistance, N	ASTM D4833	240	270	410	534	667
SP-NCTL Stress Crack (3) 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(1)	note(1)	note(1)	note(1)	note(1)
Dimensional Stability, %	ASTM D1204 (100°C ; 1 hour)	±2	±2	±2	±2	±2
Low Temperature Brittleness,°C	ASTM D746	<-77	<-77	<-77	<-77	<-77
Oxidative Induction Time, min	ASTM D3895 (200°C ; O ₂ , 1atm)	>100	>100	>100	>100	>100
Roll Width, m		7/8	7/8	7/8	7/8	7/8
Roll Length, m		225	170	128	98	76

NOTES:

- (1).Carbon black dispersion (only near spherical agglomerates) for 10 different views: all 10 in Categories 1 or 2.
(2).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 value.
(3).NCTL for HD Textured is conducted on representative smooth geomembrane sample.

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