

## HUITEX LLDPE VF Smooth Geomembrane

Property	Test Method	Standard Values					
		50	75	100	150	200	250
Thickness, mm	ASTM D5199						
Minimum Average Values		0.50	0.75	1.00	1.50	2.00	2.50
Lowest Individual Reading		0.45	0.68	0.90	1.35	1.80	2.25
Density, g/cm <sup>3</sup> (max)	ASTM D792	<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 Break, kN/m width		14	20	27	40	55	66
2.Elongation at Break, %		800	800	800	800	800	800
Tear Resistance, N	ASTM D1004	50	70	100	150	200	250
Puncture Resistance, N	ASTM D4833	120	190	250	370	500	620
Carbon Black Content, %	ASTM D1603	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)
Dimensional Stability, %	ASTM D1204 (100°C ; 1 hour)	±2	±2	±2	±2	±2	±2
Low Temperature Brittleness, °C	ASTM D746	<-77	<-77	<-77	<-77	<-77	<-77
Oxidative Induction Time, min	ASTM D3895 (200°C ; O <sub>2</sub> , 1atm)	>100	>100	>100	>100	>100	>100
2% Modulus, kN/m (max)	ASTM D5323	210	315	420	630	840	1050
Roll Width, m		7	7	7	7	7	7
Roll Length, m		420	280	210	140	105	84

## HUITEX LLDPE VS/VX Textured Geomembrane

Property	Test Method	Standard Values				
		075	100	150	200	250
Thickness, mm (2)	ASTM D5199					
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, mm (average value)	ADTM D7466	0.40	0.40	0.40	0.40	0.40
Density, g/cm <sup>3</sup> (max)	ASTM D792	0.940	0.940	0.940	0.940	0.940
Tensile Properties(each direction)	ASTM D6693 Type IV specimen @ 50 mm/min G.L.50mm					
1.Strength at Break, kN/m width		9	11	16	21	26
2.Elongation at Break, %		250	250	250	250	250
Tear Resistance, N	ASTM D1004	70	100	150	200	250
Puncture Resistance, N	ASTM D4833	150	200	300	400	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 <sub>2</sub> , 1atm)	>100	>100	>100	>100	>100
2% Modulus, kN/m (max)	ASTM D5323	315	420	630	840	1050
Roll Width, m		7	7	7	7	7
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.

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