



## HUTEX VF Series- Smooth Very Flexible Polyethylene Geomembrane

HUTEX VF Series geomembrane is made of premium virgin VFPE (LLDPE) resin designed specifically for geomembrane production along with adequate carbon black, antioxidant, and stabilizers to have superior elongation, flexibility and outstanding long-term resistance to puncture.

		Minimum Values					
Property	Test Method	VF050	VF075	VF100	VF150	VF200	VF250
Thickness, mm	ASTM D5199						
Minimum Average Values		0.50	0.75	1.00	1.50	2.00	2.50
Lowest Individual Reading		0.45	0.67	0.90	1.35	1.80	2.30
Density, g/cm <sup>3</sup>	ASTM 1505/D792	0.92	0.92	0.92	0.92	0.92	0.92
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, %	G.L. 51 mm	800	800	800	800	800	800
Tear Resistance, N	ASTM D1004	50	70	110	150	200	250
Puncture Resistance, N	ASTM D4833	120	190	250	370	500	620
Carbon Black Content, %	ASTM D1603	2.0	2.0	2.0	2.0	2.0	2.0
Carbon Black Dispersion	ASTM D5596	Cat.2	Cat.2	Cat.2	Cat.2	Cat.2	Cat.2
Oxidative Induction Time, min	ASTM D 3895 (200 ; O <sub>2</sub> , 1 atm)	100	100	100	100	100	100

		Nominal Values					
Density, g/cm <sup>3</sup>	ASTM 1505/D792	0.938	0.938	0.938	0.938	0.938	0.938
Tensile Properties (each direction)	ASTM D6693 Type IV specimen @ 50 mm/min						
1. Strength at Break, kN/m width		18	26	34	45	65	78
2. Elongation at Break, %	G.L. 51 mm	850	850	850	850	850	800
Melt Index, g/10 min	ASTM D1238 (190 ; 2.16kg)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2% Modulus, kN/m	ASTM D5323	210	370	420	630	840	1050
Axi-Symmetric Break Strain, %	ASTM D5617	56	56	56	56	56	56
Tear Resistance, N	ASTM D1004	62	95	135	180	238	297
Puncture resistance, N	ASTM D4833	160	250	320	470	597	740
Carbon Black Content, %	ASTM D1603	2.5	2.5	2.5	2.5	2.5	2.5
Carbon Black Dispersion	ASTM D5596	Cat.1	Cat.1	Cat.1	Cat.1	Cat.1	Cat.1
Dimensional Stability, %	ASTM D1204 (100 ; 1 hour)	± 1	± 1	± 1	± 1	± 1	± 1
Low Temperature Brittleness,	ASTM D746	< -77	< -77	< -77	< -77	< -77	< -77

		Roll Dimensions					
Width, m		7	7	7	7	7	7
Length, m		420	280	210	140	105	84
Area, m <sup>2</sup>		2940	1960	1470	980	735	588
Net Weight, kg (Approx.)		1381	1381	1381	1381	1381	1381
40' container, rolls		16	16	16	16	16	16

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