

HD/HP SERIES – Smooth HDPE Geomembrane

HUITEX® HDPE Smooth Geomembrane is made of premium HDPE (High Density Polyethylene) with smooth finishes. It has superior features including outstanding dimensional stability, excellent impermeability, and strong resistance against aggressive chemicals, ultraviolet and environmental stress crack. HUITEX® HDPE Smooth Geomembrane is the most common material for geolining solution.

Product Specifications

Property	Test Method	Minimum Values					
		HD/HP075	HD/HP100	HD/HP150	HD/HP200	HD250	HD300
Thickness, mm	ASTM D5199						
Average values		0.75	1.00	1.50	2.00	2.50	3.00
Lowest Individual Reading		0.67	0.90	1.35	1.80	2.30	2.70
Density, g/cm ³	ASTM D792/D1505	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Properties (1):	ASTM D6693 Type IV specimen @ 50 mm/min						
1.Strength at Yield, kN/m		11	16	25	34	40	45
2.Strength at Break, kN/m		22	30	45	58	72	81
3.Elongation at Yield, %	Gauge length 33mm	13	13	13	13	13	13
4.Elongation at Break, %	Gauge length 50mm	700	700	700	700	700	700
Tear Resistance, N	ASTM D1004	100	134	200	270	330	374
Puncture Resistance, N	ASTM D4833	270	360	510	680	850	1000
Stress Crack Resistance, hrs	ASTM D5397 (Appendix)	400	400	400	400	400	400
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 D 3895 (200°C; O ₂ , 1 atm)	100	100	100	100	100	100
Roll Width, m		7.0/8.0					
Roll Length, m		280	210	140	105	84	70
Roll Area, m ²		1960/2240	1470/1680	980/1120	735/840	588	490
Weight/Roll, kg		1397/1596	1397/1596	1397/1596	1397/1596	1397	1397
40 HQ Container, roll		17/15	17/15	17/15	17/15	17	17

NOTES:

- (1). Machine direction (MD) and cross machine direction (XMD) average values should be on basis of 5 test specimens each direction.
- (2). Carbon black dispersion for 10 different views: all 10 in Categories 1 or 2.

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