



HUITEX HX Series – Textured High Density Polyethylene Geomembrane Data sheet

HUITEX HX Series geomembrane is made of premium virgin HDPE resin with either one or two sides textured surfaces, the high quality resin used is designed specifically for geomembrane production along with adequate carbon black, antioxidant, and stabilizers to have superior mechanical properties and outstanding long-term resistance to aggressive chemical, environmental stress crack, and UV radiation.

HUITEX HX series geomembrane provide an excellent frictional characteristics than the smooth products and retain most of the properties of HD series geomembrane.

		Minimum Values				
Property	Test Method	HX075	HX100	HX150	HX200	HX250
Thickness, mm	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	2.30
Asperity Height, mm	GRI GM12	0.25	0.25	0.25	0.25	0.25
Density, g/cm ³	ASTM 1505/D792	0.94	0.94	0.94	0.94	0.94
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	26
3.Elongation at Yield, %	G.L. 33 mm	13	13	13	13	13
4.Elongation at Break, %	G.L. 51 mm	100	100	100	100	100
Tear Resistance, N	ASTM D1004	98	135	200	250	312
Puncture Resistance, N	ASTM D4833	240	270	410	534	800
Carbon Black Content, %	ASTM D1603	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
Oxidative Induction Time, min	ASTM D 3895 (200 ; O ₂ , 1 atm)	100	100	100	100	100

		Nominal Values				
Melt Flow Index, g/10 min	ASTM D1238 (190 ; 2.16kg)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dimensional Stability, %	ASTM D1204 (100 ; 1 hour)	±1	±1	±1	±1	±1
Low Temperature Brittleness,	ASTM D746	< -77	< -77	< -77	< -77	< -77
Stress Crack Resistance, hrs	ASTM 5397 (Appendix)	> 400	> 400	> 400	> 400	> 400

		Roll Dimensions				
Width, m		7	7	7	7	7
Length, m		198	152	128	98	80
Area, m ²		1386	1064	896	686	532
Net Weight, kg (Approx.)		1040	1064	1344	1372	1400
40' container, rolls		12	12	12	12	12

This information is provided for reference purposes only and is not intended as a warranty or guarantee. Huikwang Corporation (HKC) assumes no liability in connection with the use of this information. HKC reserves the right to change the specifications contained herein without notice. Please contact HKC for the latest version of specifications.

HUITEX and HKC marks used in this document are registered trademarks and properties of Huikwang Corporation.