

HUITEX LLDPE SMOOTH GEOMEMBRANE – Conductive

Properties	Test Method	VF050	VF075	VF100	VF150	VF200
Thickness, mm						
Average values	ASTM D5199	0.5	0.75	1.00	1.50	2.00
Lowest Individual Reading		0.45	0.68	0.90	1.35	1.80
Sheet density, g/cm ³	ASTM D792	0.939	0.939	0.939	0.939	0.939
Melt Index, 190/2.16, g/10min	ASTM D1238	<1	<1	<1	<1	<1
Tensile Properties: ⁽¹⁾	ASTM D6693					
1.Strength at Break, kN/m	Type IV specimen	13	20	27	40	53
2.Elongation at Break, %	@ 50 mm/min	800	800	800	800	800
Tear Resistance, N	ASTM D1004	50	70	100	150	200
Puncture Resistance, N	ASTM D4833	120	190	250	370	500
Carbon Black Content ⁽²⁾ , %	ASTM D1603	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	Note (3)	Note (3)	Note (3)	Note (3)	Note (3)
Oxidative Induction Time, mins	ASTM D 3895	100	100	100	100	100
Oven Aging at 85°C	ASTM D5721	35	35	35	35	35
Standard OIT, %	ASTM D3895					
UV resistance	ASTM D7238	35	35	35	35	35
High Pressure OIT, %	ASTM D5885					
2% Modulus (max.)kN/m	ASTM D5323	210	315	420	630	840
Axi-Symmetric Break Strain, %	ASTM D5617	30	30	30	30	30
Roll Width, m		7	7	7	7	7
Roll Length, m		420	280	210	140	105
Roll Area, m ²		2940	1960	1470	980	735

NOTES:

(1). Machine direction (MD) and cross machine direction (XMD) average values should be on basis of 5 test specimens each direction.

Break elongation is calculated using a gauge length of 50 mm.

(2). The carbon black content of conductive layer will be higher than 3%.

(3). Carbon black dispersion for 10 different views: all 10 in Categories 1 or 2.

- All values are nominal test results, except as minimum or maximum when specified.

This specification is intended as guides only and is not intended as a warranty or guarantee. Huikwang Corporation assumes no liability in connection with the use of this information. Huikwang Corporation reserves the right to change the specification contained herein without notice.

Ver.12:2022