

HUITEX LLDPE SMOOTH WHITE/BLACK GEOMEMBRANE – GM17

Properties	Test Method	VF100B/W	VF150B/W	VF200B/W
Thickness, mm				
Average values	ASTM D5199	1.00	1.50	2.00
Lowest individual of 10 values		0.90	1.35	1.80
Sheet density, g/cm ³	ASTM D792	0.939	0.939	0.939
Melt Index, 190/2.16, g/10min	ASTM D1238	<1	<1	<1
Tensile Properties: ⁽¹⁾	ASTM D6693			
1.Strength at Break, kN/m	Type IV specimen	27	40	53
2.Elongation at Break, %	@ 50 mm/min	800	800	800
Tear Resistance, N	ASTM D1004	100	150	200
Puncture Resistance, N	ASTM D4833	250	370	500
Carbon Black Content, %	ASTM D4218	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	Note (2)	Note (2)	Note (2)
Oxidative Induction Time, mins	ASTM D 3895 (200°C; O ₂ , 1 atm)	100	100	100
Oven Aging at 85°C	ASTM D5721	35	35	35
Standard OIT, %	ASTM D3895			
UV resistance	ASTM D7238	35	35	35
High Pressure OIT, %	ASTM D5885			
2% Modulus (max.) KN/m	ASTM D5323	420	630	840
Axi-Symmertic Break Strain, %	ASTM D5617	30	30	30
Roll Width, m		7	7	7
Roll Length, m		210	140	105
Roll Area, m ²		1470	980	735

NOTES:

(*) All values are Minimum average value unless otherwise specified.

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

(3). UV resistance is base on percent retained value regardless of the original HP-OIT value.

** Carbon Black Content, Carbon Black Dispersion, OIT, Density only for the Middle layer, White layer doesn't include in the measurement.

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.

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