

HUITEX LLDPE SMOOTH GEOMEMBRANE – GM17

Properties	Test Method	VF075	VF100	VF150	VF200
Thickness, mm Average values	ASTM D5199	0.75	1.00	1.50	2.00
Sheet density, g/cm ³ (max)	ASTM D792	0.939	0.939	0.939	0.939
Melt Index, 190/2.16, g/10min	ASTM D1238	<1	<1	<1	<1
Tensile Properties: ⁽¹⁾	ASTM D6693				
1.Strength at Break, kN/m	Type IV specimen	20	27	40	53
2.Elongation at Break, %	@ 50 mm/min	800	800	800	800
Tear Resistance, N	ASTM D1004	70	100	150	200
Puncture Resistance, N	ASTM D4833	190	250	370	500
Carbon Black Content, %	ASTM D4218	2-3	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	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
Oven Aging at 85°C	ASTM D5721	35	35	35	35
Standard OIT, %	ASTM D3895				
UV resistance	ASTM D7238	35	35	35	35
High Pressure OIT, %	ASTM D5885				
2% Modulus (max), MPa	ASTM D5323	414	414	414	414
Axi-Symmetric Break Strain, %	ASTM D5617	30	30	30	30
Roll Width, m		7	7	7	7
Roll Length, m		280	210	140	105
Roll Area, m ²		1960	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.

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