

G-Meb LLD Range Products LLDPE Geomembrane

Technical Data Sheet

GEO-LINK LLD Geomembrane Dec. 11th, 2009

G-Meb LLD is produced from prime linear low molecular weight (LLDPE) resins resulting in a high quality premium grade geomembrane with superior flexibility. Geo-Link LLD has been formulated to be chemical resistant, free of leachable additives and resistant to ultraviolet degradation. Our LLD are two or three layer co-extruded.



(E.M.B.: Every material batch)

Property	Test Method	Frequency	Minimum Value					
Product Code		LLD050	LLD075	LLD100	LLD150	LLD20	LLD250	
Thickness, (minimum average) mm	ASTM D 5199	Every roll	0.50	0.75	1.00	1.50	2.00	2.50
Lowest individual reading (-10%)			0.45	0.69	0.91	1.40	1.80	2.25
Density, g/cc	ASTM D 1505	90,000Kgs	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Properties (each direction)	ASTM D 6693, TypeIV	9,000Kgs						
Strength at Break, N/mm	Dumbell, 2ipm		13	20	27	40	53	66
Elongation at Break, %	G.L. 2.0 in (51mm)		800	800	800	800	800	800
2% Modulus (max) N/mm	ASTM D 5323	E.M.B	210	370	420	630	840	1050
Tear Resistance, N	ASTM D 1004	20,000Kgs	50	71	98	147	200	250
Puncture Resistance, N	ASTM D 4833	20,000Kgs	120	190	250	370	500	620
Axi-Symmetric Break Resistance Strain %	ASTM D 5617		30	30	30	30	30	30
Carbon Black Content, %	ASTMD 1603*/4218	9,000Kgs	2	2	2	2	2	2
Carbon Black Dispersion	ASTM D 5596	20,000Kgs	+Note1	+Note1	+Note1	+Note1	+Note1	+Note1
Standard OIT, min	ASTMD3895, 200 ϕ , 1 atm	90,000Kgs	100	100	100	100	100	100
High Pressure OIT, min			400	400	400	400	400	400
Oven Aging at 85 $^{\circ}$ C	ASTM D 5721							
Standard OIT, retained after 90 days(min), %	ASTM D 3895	E.M.B	35	35	35	35	35	35
UV Resistance								
High Pressure OIT, retained after 1600 hours(min.avg), %	ASTM D 5885	E.M.B	35	35	35	35	35	35
Roll Length		meters	205	135	210	140	100	80
Roll Width		meters	7	7	7	7	7	7
Approx Load Q'ty per 40' HQ		Sq.m	51660	34020	26460	17640	12600	10080

1. Machine direction(MD) and cross machine direction(XMD) average values should be on the basis of 5 test specimens each direction. -Elongation at break is calculated using a gage length of 50mm at 50mm/min. 2. The condition of the test should be 20 hour UV cycle at 75 $^{\circ}$ C followed by 4 hour condensation at 60 $^{\circ}$ C. 3. UV resistance is based upon percent retained values regardless of the original HP-OIT value.

+Note1: Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.

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