

G-Meb™ LLD Range Geomembrane

Technical Data Sheet

GEO-LINK LLD 11thDec.2009

G-Meb™ LLD are 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	LLD200	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 Content, %	Black ASTMD 1603*/4218	9,000Kgs	2	2	2	2	2	2	
Carbon Dispersion	Black ASTM D 5596	20,000Kgs	+Note1	+Note1	+Note1	+Note1	+Note1	+Note1	
Oxidative Induction Time ,min	ASTM D 3895,200 ℅ , 1 atm	90,000Kgs	100	100	100	100	100	100	
Oven Aging at 85°C	ASTM D 5721								
Standard OIT, retained after 90 days, %	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	100	75	50	50	50	50	
Roll Width		Meters	5.95	5.95	5.95	5.95	5.95	5.95	
Roll Area		Sq.m	595	446	297.5	297.5	297.5	297.5	

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°C followed by 4 hour condensation at 60°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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