

PRODUCT TECHNICAL DATA SHEET

ROWAD LLDPE DOUBLE SMOOTH BLACK (LDS):

ROWAD LLDPE Geomembranes are produced from prime quality, high molecular weight resins and are specially designed for most containment and environmental protection applications. The finished product has exceptional mechanical and chemical resistance properties, is highly durable with excellent aging, UV resistance and Environmental Stress Crack Resistance properties making it very suitable for most exposed applications. ROWAD Geomembranes are produced with virgin resins and DO NOT contains any fillers, foreign additives or plasticizing agents.

The ROWAD Geomembrane specification shown below meets or exceeds GRI GM 17 Standards.

Tested Properties	Test Method	Frequency	LDS075	LDS100	LDS150	LDS200	LDS250	LDS300
Thickness, (min. ave) mm	ASTM D5199	Per Roll	0.75	1.00	1.50	2.00	2.50	3.00
Lowest individual reading (-10%)			0.68	0.90	1.35	1.80	2.25	2.70
Density(Max), g/cm ³	ASTM D792	90,000 Kgs	0.939	0.939	0.939	0.939	0.939	0.939
Tensile Properties (min. ave)	ASTM D6693,	9,000 Kgs	20	27	40	53	66	80
Strength at Break, N/mm	50mm /min							
Elongation at Break, %	G.L. = 50 mm	800	800	800	800	800	800	800
2% Modulus (max) N/mm	ASTM D5323	Per formulation	370	420	630	840	1050	1260
Tear Resistance, (min ave) N	ASTM D1004	20,000 Kgs	70	100	150	200	250	300
Puncture Resistance, (min ave) N	ASTM D4833	20,000 Kgs	230	290	410	540	660	750
Carbon Black Content, (range) %	ASTM D1603/4218	9,000 Kgs	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion	ASTM D5596	20,000 Kgs	+Note 1	+Note 1	+Note 1	+Note 1	+Note 1	+Note 1
Oxidative Induction Time, mins	ASTM D3895	90,000 Kgs	100	100	100	100	100	100
Axi-Symmetric Break Resistance Strain %	ASTM D5617	Per formulation	30	30	30	30	30	30
Dimensional Stability, %	ASTM D1204	Resin batch	±1	±1	±1	±1	±1	±1
Oven Aging at 85°C HP OIT % retained after 90	ASTM D 5721 ASTM D5885	Per formulation	>60	>60	>60	>60	>60	>60
UV Resistance HP OIT % retained after 1600 hrs	GM 11 ASTM D5885	Per formulation	>35	>35	>35	>35	>35	>35
Standard Roll Dimensions								
Width(m) BF/FD	RTM	Per Roll	8/8	8/8	8/8	8/8	7/8	7/8
Length(m) BF/FD	RTM	Per Roll	225/225	170/170	110/110	80/80	70/70	70/70
Area (m ²) BF/FD	RTM	Per Roll	1800	1360	880	640	490/560	490/560

NOTES:

- 1: Carbon black Dispersion only applies to near spherical agglomerates. 10 of 10 views in Category 1 or 2.
- 2: Testing frequencies are rounded the nearest full roll.
- 3: Roll lengths & widths have a tolerance of ±1%.
- 4: NCTL/OIT Results For Smooth and Textured materials are taken from SMOOTH Section/Selvage of the Role & All 3rd Party Tests must be taken from this section only.
- 5: Where offered- Conductive layers will be complete across the bottom of each role. (Standard Conductive will be BF or FD while Premium conductive will be BF only).
- 6: For reference; BF= Blown Film, FD= Flat Die.
- 7: Where offered single Textured rolls will be located on the upper face Unless otherwise agreed.

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