

PRODUCT TECHNICAL DATA SHEET

ROWAD LLDPE SINGLE TEXTURED BLACK (LST):

ROWAD LLDPE Geomembranes are produced from prime quality, high molecular weight resins and are specially designed to apply for all containment of fluids in hydraulic structure. It has exceptional mechanical properties and outstanding chemical resistance, dimensional stability with high thermal aging characteristics. It also has an excellent resistance to UV radiation, environmental stress crack and is highly suitable for exposed applications.

Tested Properties	Test Method	Frequency	LST075	LST100	LST150
Thickness, (nominal) mm	ASTM D5994	Per Roll	0.75	1.00	1.50
Thickness, (min. ave) mm			0.71	0.95	1.43
Lowest individual for 8 out of 10 values			0.68	0.90	1.35
Lowest individual of 10 values			0.64	0.85	1.28
Asperity Height(min) mm	ASTM D7466	Per Roll	0.25	0.25	0.25
Density(Max), g/cm ³	ASTM D792	90,000 Kgs	0.939	0.939	0.939
Tensile Properties (min.ave)	ASTM D6693, 50mm /min G.L. = 50 mm	9,000 Kgs	9	11	16
Strength at Break, N/mm					
Elongation at Break, %			250	250	250
2%Modulus (max) N/mm	ASTM D5323	Per formulation	370	420	630
Tear Resistance,(min ave) N	ASTM D1004	20,000 Kgs	70	100	150
Puncture Resistance,(min ave) N	ASTM D4833	20,000 Kgs	190	240	340
Carbon Black Content, (range) %	ASTM D1603/4218	9,000 Kgs	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion	ASTM D5596	20,000 Kgs	+Note1	+Note 1	+Note1
Axi-symmetric Break Resistance Strain %	ASTM D5617	Per formulation	30	30	30
Oxidative Induction Time, mins	ASTM D3895	90,000 Kgs	100	100	100
Dimensional Stability, %	ASTM D1204	Resin batch	±1	±1	±1
Oven Aging at 85°C HP OIT % retained after 90 days	ASTM D5721 ASTM D5885	Per formulation	>60	>60	>60
UV Resistance HP OIT % retained after 1600 hrs	GM 11 ASTM D5885	Per formulation	>35	>35	>35
Standard Roll Dimensions					
Width(m) BF	RTM	Per Roll	8	8	8
Length(m) BF	RTM	Per Roll	200	150	100
Area (m ²) BF	RTM	Per Roll	1600	1200	800

NOTES:

- Carbon black Dispersion only applies to near spherical agglomerates. 10 of 10 views in Category 1 or 2.
- Testing frequencies are rounded the nearest full roll.
- Roll lengths & widths have a tolerance of ±1%.
- 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.
- 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).
- For reference; BF= Blown Film, FD= Flat Die.
- Where offered single Textured rolls will be located on the upper face Unless otherwise agreed.



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