

# Rowad International Geosynthetics Co.

Series LLDPE - Metric

## Linear Low Density Polyethylene - Single Side Textured

ROWAD's LLDPE geomembranes are produced from first quality, high molecular weight resins and are manufactured specifically for containment of fluids in hydraulic structures. ROWAD geomembranes are durable, flexible, and have been formulated to be resistant to chemicals, ultraviolet degradation and leaching additives. The series of geomembranes shown below is based on a minimum average thickness value equal to the nominal thickness minus 5%, with the lowest individual of 8 of 10 values equal to the nominal thickness minus 10%, and the lowest individual of 10 values equal to nominal minus 15%.

Property	Test Method	Frequency <sup>1</sup>	LST075	LST100	LST150	LST200	LST250
Thickness (nominal) [mm]			0.75	1.00	1.50	2.00	2.50
Thickness (min. ave.) [mm]	D5994	Per roll	0.71	0.95	1.43	1.90	2.38
• Lowest individual of 8 of 10 values			0.68	0.90	1.35	1.80	2.25
• Lowest individual of 10 values			0.64	0.85	1.28	1.70	2.13
Asperity Height (min) [mm]	GM12	Per roll	0.25	0.25	0.25	0.25	0.25
Tensile Properties	D6693 Type IV	6,000 kg					
• Break Strength [kN/m]			10	13	20	26	33
• Break Elongation [%]	(50mm gage)		250	250	250	250	250
2% Modulus (max) [kN/m]	D5323	Per Formula	370	420	630	840	1050
Tear Resistance [N]	D1004	12,000 kg	74	99	149	198	248
Puncture Resistance [N]	D4833	12,000 kg	154	205	308	410	513
Carbon Black Content (range) [%]	D1603/D4218	6,000 kg	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	D5596	12,000 kg	Note	Note	Note	Note	Note
Density (max. ave.) [g/ml]	D1505/D792	Resin Batch	0.939	0.939	0.939	0.939	0.939
Dimensional Stability (max. av.) [%]	D1204	Resin Batch	±1	±1	±1	±1	±1
Oxidative Induction Time [minutes]	D3895	Resin Batch	>100	>100	>100	>100	>100

<sup>1</sup>Testing frequencies are rounded to the nearest full roll.

<sup>2</sup>Carbon Black Dispersion for 10 different views: all 10 in Categories 1 or 2.

The information contained herein has been compiled by ROWAD and is, to the best of our knowledge, true and accurate. This information is offered without warranty. Final determination of suitability for use contemplated is the sole responsibility of the user. This information is subject to change without notice.

**Black or White surface upon request**

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<http://www.geosynthetic-institute.org/gai.htm>

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