

Corden EPS Geo-membrane – LLDPE (Smooth) is a linear low-density polyethylene membrane, for use in accordance with harmonised standards:

BS EN 13361: Characteristics required for use in the construction of reservoirs and dams.

BS EN 13362: Characteristics required for use in the construction of canals.

BS EN 13491: Characteristics required for use in the construction of tunnels and underground structures.

BS EN 13492: Characteristics required for use in the construction of liquid waste disposal sites, transfer stations, or secondary containment.

BS EN 13493: Characteristics required for use in the construction of solid waste storage and disposal sites.

BS EN 15382: Characteristics required for use in the construction of transportation infrastructure.

Corden EPS Geo-membrane – LLDPE						
Characteristic Test Method Unit			0.75mm	1.0mm	1.5mm	2.0mm
Material Properties						
Material	DSC analysis		Linear Low Density Polyethylene (LLDPE)			
Width		M	5.1	5.1 or 8.0		
Length		M	300	200	150	120
GRI-GM17 Properties						
Thickness (min. ave.) <small>Lowest individual of 10 values</small>	ASTM D 5199	MM	0.75 (10%)	1.0 (10%)	1.5 (10%)	2.0 (10%)
Density (max)	ASTM D 1505	g/cm ³	0.939			
Tensile Properties (min. ave.)	ASTM D 6693					
Break Strength	type IV	kN/m	20.00	30.00	40.00	56.00
Break Elongation		%	800	800	800	800
2 % Modulus (max)	ASTM D 5323	kN/m	370	420	500	600
Tear Resistance (min. ave.)	ASTM D 1004	N	70	100	150	200
Puncture Resistance (min.ave.)	ASTM D 4833	N	190	350	400	550
Axi-symmetric Break Resistance Strain <small>(min)</small>	ASTM D 5617	%	30	30	30	30
Carbon Black Content	ASTM D 4218/ 6370	%	2-3	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D 5596	Category	min. 9 in Categories 1 or 2 and max. 1 in Category 3			
Oxidative Induction Time (OIT) (min. ave.)						
Standard OIT	ASTM D 3895	min.	100	100	100	100
High Pressure OIT	ASTM D 5885		400	400	400	400
Oven Aging at 85 °C	ASTM D 5721	%	35	35	35	35
Standard OIT (min. ave.) % retained after 90	ASTM D 3895					
UV Resistance						
High Pressure OIT (min. ave.) % retained after 1600 hours	ASTM D 5885	%	35	35	35	35

HANDLING

Roll weights can be in excess of 75kg and hence appropriate care and equipment is required for unloading and handling.

STORAGE

Rolls of Corden EPS Geo-membrane – LLDPE should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.

INSTALLATION

Corden EPS Geo-membrane – LLDPE should be installed in accordance with the product installation guidelines.

JOINTING AND SEALING

Corden EPS Geo-membrane – LLDPE should be jointed and sealed in accordance with the product installation guidelines.

ADDITIONAL INFORMATION

For additional information or assistance, please contact Corden EPS directly.

