

AKS Lining Systems (Pty) Ltd

Specialist in high performance concrete protection liner



Technical Data:

Geoliner

Black UV Stabilised High Density Polyethylene Sheets in thickness from 1.0mm to 5.0mm

Geoliner is a smooth geomembrane liner produced from HDPE resin. Geoliner conforms to the requirements of the GRI-GM13 (HDPE) specification. Geoliner *smooth geomembrane* offers many benefits, including:

- outstanding chemical resistance
- excellent weldability
- low coefficient of friction
- long life / low maintenance

Properties	Test Method	Unit	Value	Frequency
Thickness Nominal	ASTM D 5199	mm	+/- 10%	every roll
Sheet Width		mm	3400	every roll
Density	ASTM D 1505/D 792	g/ml	≥0,940	90 000kg
Carbon black content	ASTM D 1603	%	2 to 3	9 000kg
Carbon black dispersion	ASTM D 5596	Category	1 or 2	20 000kg
Melt Flow Index	ASTM D 1238 - 190/21.6	g/10min	21	per batch
OIT	ASTM D 3895	Minutes	>100	90 000kg
Coefficient of linear expansion	ASTM E 831	cm/cm/degC	1.1 - 1.4E-4	per formulation
Tensile properties	ASTM D 6693-04			9 000kg
• yield stress		MPa	15	
• break stress		MPa	27	
• yield elongation		%	12	
• break elongations		%	> 700	
Shore hardness	DIN 53505	N/mm ²	>56	per batch

For further information on this product, please contact us at the following address:

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Technical data refers to average values, measured across the manufactured width of the sheet. This information is expressed as a guide and based on values measured in our laboratory as well as independent laboratories. The quoted values are based on specific resin properties and are subject to change without prior notice.