



Anchor Knob Sheet - AKS™ - Black

Technical Data

Black UV Stabilised High Density Polyethylene in thickness from 1.5mm to 6.0mm (Excluding length of anchors)

AKS™ is an advanced, robust, concrete protection liner system. It offers many benefits, including:

- outstanding chemical resistance
- excellent weldability
- high resistance to mechanical damage
- crack bridging ability
- low coefficient of friction
- long life / low maintenance
- also available in a range of colours



Properties	Test Method	Unit	Value	Frequency
Thickness variance (min. avg.) 5 measurements across sheet width	ASTM D 5199	%	- 10% lowest individual reading	20 linear metre
Density	ASTM D 1505/D 792	g/cc	≥ 0,940	30 000kg
Carbon black content	ASTM D 4218	%	2 to 3	per batch
Carbon black dispersion	ASTM D 5596	Category	1 or 2	per batch
ESCR (NCTL)	ASTM D 5397 Appendix	Hours	>300	per formulation
Standard OIT	ASTM D 3895	Minutes	>100	per 90 000kg
High Pressure OIT	ASTM D 5885	Minutes	>400	per 90 000kg
Coefficient of linear expansion	ASTM E 831	cm/cm/degC	1.1 - 1.4E ⁻⁴	per formulation
Length of anchors (nom)		mm	12	20 linear metre
Anchors per m ²		#/m ²	1230	fixed
Tensile properties • yield stress * • break stress * • yield elongation * • break elongation *	ASTM D 6693 TYPE IV	kN/m (per mm) kN/m (per mm) % %	15 * 27 * 12 * 700 *	200 linear metre
Shore hardness	DIN 53505	N/mm ²	>50	per formulation
Tear resistance	ASTM D 1004	N/mm (t)	120	batch
Puncture resistance	ASTM D 4833	N/mm (t)	300	batch
Dimensional stability	ASTM D 1204	% change	< 2	batch
Water absorption	ASTM D 570	%	0.009	per formulation

* denotes measured on smooth portion of AKS or by moulding a smooth plaque for testing

AKS is supplied in either rolls or flat sheets. Width 2.0m to max 3.2m. Roll length max 50m (depending on sheet thickness).

To provide the best protection solutions for your concrete project, please contact us at:

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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.