

Technical Data Sheet COLETANCHE ES 1 Geomembranes

1.	Description	Coletanche ES1 is an elastomeric modified bituminous geomembrane.			
2.	Use	Low level of mechanical constraints, exposed or covered limiting risks of puncture and tensile stresses. For example:			
		Landfill and waste capping.Shallow hydraulic ponds.Ditches.			
		Product use must be validated by Axter Ltd.			
3.	Application Method By torch welding or similar technique.				
4.	Storage	Rolls must not be stored directly on the ground. Provide suitable supports (blocks, slides, wooden planks) with a minimum height of 35cm, to be placed under the ends of the mandrel.			
5.	Composition	(Indicative).			

Reinforcement (g/m²)	Glass-fibre	50
Reinforcement (g/m²)	Non-woven geotextile	200
Binder (g/m²)	Elastomeric SBS	3800
Surface finish(g/m²)	Sand	250
Under surface finish	Silicone coated film	15

Characteristics			Standards (BS)	Units	Values	Min Tolerance					
Dimensions	Length		EN 1848-1	m	100	99					
Dimensions	Width			m	5.10	5.01					
Thickness (on finished	EN 1849-1	mm	3.5	3.1							
Surface mass	EN 1849-1	kg/m²	4.20	3.70							
Tensile properties:	Longitudinal		EN 12311-1	N/50mm	800	550					
maximum strength	Cross direction				600	400					
Tensile properties:	Longitudinal			%	45	30					
elongation	Cross direction				45	30					
Flexibility at low temp	EN 1109	°C	-20	-16							
Static Puncture	Resistance		EN ISO 12236	kN	2.7	2.4					
Static Fullcture	Displacement			mm	50	40					
Water permeability	EN 14150	m³/m²/d	1.10-6	<							
Gas permeability	ASTM D 1434-82	m ³ / (m ² .d.atm)	2.10-4	<							
Durability											
Oxidation	Tensile strength according to EN 12311-1 retained tensile strength according to EN 12226	Maximum strength	EN 14575	%	100	75					
Oxidation		Maximum elongation			100	75					
Weathering		Maximum strength	EN 12224	%	100	75					
Heathering		Maximum elongation			100	75					

The manufacturer reserves the right to modify, at any time, the characteristics of these products.

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