

## OASIS 1.52mm (30 Years)

OASIS 1.52mm is a durable, high-performance EIA geomembrane utilizing DuPont Elvaloy and is specially designed for use on water reservoirs and certified (NSF Standard 61/AS4020) for potable water usage.

Engineered with a proprietary TPA polymer (C3), the cover is highly resistant to oxidation, ozone, ultraviolet light, and weathering effects; and because the membrane does not cure it allows for easy welding of strong reliable seams during the entire lifetime of the cover.



### Material warranty of 30 Years (20 years straight with 10 years reducing)

Tested Property	Unit	Test Method	Values ( * )	
<b>Coated Fabric</b>				
Thickness (±10%)	mm		1.52	
Colours	---		Tan / Blue	
Coating Type	---		Thermoplastic Alloy (TPA)	
Sealing Properties	---		Dielectric / Thermal	
<b>Material Properties</b>			<b>Minimum</b>	<b>Typical</b>
Tensile Strength, Grab				
- Warp (MD)	N	ASTM D 751A	1779	2002
- Fill (TD)			1690	1913
Tensile Elongation, Grab				
- Warp (MD)	%	ASTM D 751A	30	35
- Fill (TD)			30	35
Tear Strength, Tongue				
- Warp (MD)	N	ASTM D 5884	623	800
- Fill (TD)			578	800
Puncture, Ball	N	ASTM D 751	1846	2291
Puncture, Screwdriver	N	ASTM D 751	334	445
Puncture, Rod	N	ASTM D 4833	512	756
Hydrostatic Resistance	MPa	ASTM D 751	4.5	5.2
Dimensional Stability (100°C / 1hr)	%	ASTM D 1204	±2	±1
Low Temperature Bend	°C	ASTM D 2136	-34	-34
Low Temperature Brittleness	°C	ASTM D 1790	-26	-26
Abrasion Resistance (H18 / 1kg)	Cycles	ASTM D 3889	7 000	7 500
Ozone Resistance (100 pphm @ 40°C)	---	ASTM D 1149	Pass	Pass
Coefficient of Linear Thermal Expansion	m/m/°C	ASTM D 696	8.2 x 10 <sup>-5</sup>	8.2 x 10 <sup>-5</sup>
Weathering Resistance (accelerated lab)*	13,000 hrs	ASTM G 154	No Cracking	No Cracking
Weathering Resistance (accelerated outdoor)*	34 months	ASTM G 90	No Cracking	No Cracking
Weathering Resistance (natural outdoor)*	24 months	ASTM D 1485	No Cracking	No Cracking
Seam Shear Strength	N	ASTM D 7749	890	1023
Seam Peel Strength	N/cm	ASTM D 751	35	52

**NOTES:**

(\*): Weathering testing is ongoing in Rhode Island (laboratory) and Arizona (outdoor), USA.

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**DIRECTORS:**  
**CJ GUNDLE (CHAIRMAN), PJ MEYER (MANAGING), NKH FITZ-GIBBON, KR GUNDLE, \*MA WITTMANN (\*AUSTRIAN)**  
**Aquatan (Pty) Ltd Reg. No. 1990/005957/07 VAT No. 4230104251**

