

DuPont™ Xavan® Liner

An exceptionally robust, lightweight and flexible pond liner

Application

- DuPont™ Xavan® Liner is a watertight polymeric sheet for creating artificial ponds and lakes
- It may be used for:
 - leisure ponds
 - fish ponds / nursery ponds
 - swimming ponds

Properties

- Xavan® Liner is a composite material based on Xavan® non-woven technology and the know-how of DuPont in the field of Elvaloy® polymers
- Ideal balance of weight versus strength properties
- Chemically stable, contains no substances likely to leach into the water or air
- Non-degradable by algae or other organisms and produces no oxidation liable to damage pond plants
- Highly UV resistant
- Highly resistant to attack by acid and base solutions

Advantages

- Much lighter than similar products, but offering the same level of strength
- Its lightness enables tangible savings in labour and installation time
- Easy to cut, weld and bond on the installation site
- Xavan® Liner allows quick finishing around ponds and pipe connections. Ideal for professional designers to create imaginative pond designs and complex shaping
- As the liner is essentially made of polyolefin, any surplus material after installation is easily recycled or may be incinerated without hazardous emissions

** if properly installed*



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Technical characteristics

Properties	Standard	Unit	Value
Unit weight	EN ISO 9864	g/m ²	507
Thickness	EN ISO 9863-1	mm	0,55
Tensile strength	EN ISO 10319	kN/m	10,2
Elongation	EN ISO 10319	%	40
Tear strength	ASTM D4533-91	kg	18,5
Puncture resistance	ASTM D4833 8 mm	N	300
Cone penetration	EN ISO 13433	mm	19
Water tightness	EN ISO 20811	cm	>900
Low temperature flexibility / no cracking	EN 495-5	°C	-40

Joining techniques

Joins are made using welding equipment (e.g.: www.leister.com) or butyl/hotmelt adhesive tape, available from DuPont.

- **Bonding with adhesive tape (Xavan® double-sided tape)**

This brand is recommended for its excellent adhesive performance and its compatibility with DuPont products.

Width: 5cm, length: 10m

- **Hot welding**

Examples of typical equipment settings:

- *Leister Twinnny S (self-driven equipment)*

Optimal settings: pressure: 300N, temperature: 260-270°C, speed: 1.6m/min

- *Leister Triac PID hot air welding machine (manual)*

A temperature of 270°C will yield optimal adhesion and seam strength.



Note on installation

Always install the Liner on a stable subsoil, such as concrete or a layer of sand. Remove any protruding sharp objects and protect it with a Typar® geotextile

Dimensions:

33m x 4m, 33m x 6m
33m x 8m, 33m x 12m

For further information on products and installation, visit our website:

www.plantexpro.dupont.com

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