

Name **Texlon System**

Product ID

Classification 07 50 00.00 Thermal and Moisture  
Protection: Membrane RoofingWebsite [www.vector-foiltec.com](http://www.vector-foiltec.com)Manufacturer Vector FoilTec  
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**Description** The Texlon® System is based on the following principle: pneumatically stabilised foil elements are fixed to a sub-structure by means of a high-quality aluminium frame system. The system can consist of between two and five layers of ETFE foil (ethylene tetrafluoroethylene) depending on the building physics, static or design requirements and specifications. g-values and U-values are determined by the number of layers, the color and the type of coating. The thickness of the ETFE foils varies between 80 µm and 300 µm according to the requirements of the structural analysis. The individual layers are welded together at the edges and stabilised to approximately 220 Pa (220 N/m<sup>2</sup>) by means of a low-pressure air system. This HPD is based on a typical 3-layer foil system: Upper layer: 200 µm // Middle layer: 100 µm // Lower layer: 200 µm

Release Date 2015-07-17  
Expiry Date 2018-07-17  
HPD URL <http://www.vector-foiltec.com/texlon-etfe-system/sustainability/> Self-declared Second Party Third Party

Certifier

Certificate #

## SUMMARY DISCLOSURE

The content of this product was assessed for health hazard warnings as required using Pharos

### Residuals Disclosure

- Measured 100 ppm (ideal)
- Measured 1000 ppm
- Predicted by process chemistry
- As per MSDS (1,000 & 10,000 ppm)
- Not disclosed
- Other

### Full Disclosure of Intentional Ingredients

 Yes  No

### Full Disclosure of Known Hazards

 Yes  No

### Disclosure Notes

Pharos

### Contents in Descending Order of Quantity

MAGNESIUM , Silicon , 1-Propene , 1,1,2,3,3,3-hexafluoro-, polymer with tetrafluoroethene , IRON , SILICA, AMORPHOUS , Polydimethylsiloxanes , CALCIUM STEARATE , Ethylene tetrafluoroethylene (ETFE) , LIMESTONE; CALCIUM CARBONATE , CARBON BLACK , CALCIUM CARBONATE , TETRABUTYL ORTHOTITANATE , tetrakis(2-butoxyethyl) orthosilicate , Octamethyltrisiloxane (L3) , ZINC , Manganese , COPPER , Chromium , Unknown , DECAMETHYLCYCLOPENTASILOXANE (D5) , NAPHTHALENE

### Hazards

- PBT (Persistent Bioaccumulative Toxic)
- Cancer
- Gene Mutation
- Development
- Reproductive
- Endocrine
- Respiratory

### Highest concern GreenScreen score - List Translator Benchmark 1

- Neurotoxicity
- Mammal
- Skin or Eye
- Aquatic toxicity
- Land toxicity
- Physical hazard
- Global warming
- Ozone depletion
- Multiple
- Unknown

### Total VOC Content

Material (g/L) N/A

Regulatory (g/L) N/A

Does the product contain exempt VOCs?

 N/A  Yes  No

Are there VOC-free tints available?

 N/A  Yes  No

### Notes

### Certifications + Compliance

VOC Emissions AgBB evaluation scheme (building products emissions) - 2015

VOC Content N/A

LCA Environmental Product Declaration (EPD)

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an "open standard" developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit [hpdcollaborative.org](http://hpdcollaborative.org).

## CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level.

Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at [www.hpdcollaborative.org/hazardlists](http://www.hpdcollaborative.org/hazardlists).

**GS:** GreenScreen Benchmark; **RC:** Recycled Content, **PC:** Post Consumer, **PI:** Post Industrial (Pre-consumer), **BO:** Both; **Nano:** comprised of nanoscale particles or nanotechnology

Name	CAS RN	% weight	GS	RC	Nano	Role
<b>Hazard A</b>	<b>Warning A</b>					
<b>Hazard B</b>	<b>Warning B</b>					
<b>Hazard C</b>	<b>Warning C</b>					
<b>Hazard D</b>	<b>Warning D</b>					
<b>Hazard E</b>	<b>Warning E</b>					
<b>Notes</b>						
<b>MAGNESIUM</b>	7439-95-4	23.35 - 46.86 %	LT-U	U	U	Aluminium Extrusion for ETFE Cushion Frame
FLAMMABLE	EU H-Statements: H250 Catches fire spontaneously if exposed to air					
REACTIVE	EU H-Statements: H260 In contact with water releases flammable gases which may ignite spontaneously					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>Silicon</b>	7440-21-3	20.01 - 46.86 %	LT-U	U	U	Aluminium Extrusion for ETFE Cushion Frame
None found	No warnings found on HPD Priority lists					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with tetrafluoroethene</b>	25067-11-2	12 - 24.5 %	LT-U	N	N	ETFE Foil
None found	No warnings found on HPD Priority lists					
Actual listed CAS number is 74499-71. Information on VOC testing is provided in the NOTES section of this HPD						
<b>IRON</b>	7439-89-6	6.67 - 23.43 %	LT-U	U	U	Aluminium Extrusion for ETFE Cushion Frame
None found	No warnings found on HPD Priority lists					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>SILICA, AMORPHOUS</b>	7631-86-9	3.48 - 9.54 %	LT-1	U	N	Silicon Gasket

CANCER	NIOSH-C: Occupational carcinogen					
<b>Polydimethylsiloxanes</b>	63148-62-9	3.48 - 9.54 %	LT-P1	U	N	Silicon Gasket
PBT	DSL: Persistent, Bioaccumulative and inherently Toxic (PBiT) to humans					
Proxy for generic polyorganosiloxanes						
<b>CALCIUM STEARATE</b>	1592-23-0	0.31 - 0.37 %	LT-U	U	N	Polypropylene (Keder) Ropes
None found	No warnings found on HPD Priority lists					
<b>Ethylene tetrafluoroethylene (ETFE)</b>	25038-71-5	0.03 - 0.04 %		BO	N	ETFE Valves
None found	No warnings found on HPD Priority lists					
<b>LIMESTONE; CALCIUM CARBONATE</b>	1317-65-3	0.01 %	LT-U	U	U	Dow Corning 795 Silicone Building Sealant for patches
None found	No warnings found on HPD Priority lists					
proportional mass content on Dow Corning 795 SGS - Black: 15 mg/m <sup>3</sup>						
<b>CARBON BLACK</b>	1333-86-4	0.01 %	LT-1	U	U	Dow Corning 795 Silicone Building Sealant for patches
CANCER	NIOSH-C: Occupational carcinogen (also in Prop 65, IARC, MAK)					
proportional mass content on Dow Corning 795 SGS - Black: 3,5 mg/m <sup>3</sup>						
<b>CALCIUM CARBONATE</b>	471-34-1	0.01 %	LT-U	U	U	Dow Corning 795 Silicone Building Sealant for patches
None found	No warnings found on HPD Priority lists					
proportional mass content on Dow Corning 795 SGS - Black: 10 mg/m <sup>3</sup>						
<b>TETRABUTYL ORTHOTITANATE</b>	5593-70-4	0.01 %	LT-P1	U	U	Dow Corning 1200 OS Primer for Silicone Seal Patches Custom Designs H.C.
MULTIPLE	Vw/wS: Class 2 Hazard to Waters					
proportional mass concentration on Dow Corning 1200 OS Primer: = 5 - 10 %						
<b>tetrakis(2-butoxyethyl) orthosilicate</b>	18765-38-3	0.01 %	LT-U	U	U	Dow Corning 1200 OS Primer for Silicone Seal Patches Custom Designs H.C.
None found	No warnings found on HPD Priority lists					
proportional mass concentration on Dow Corning 1200 OS Primer: 5 - 10 %						
<b>Octamethyltrisiloxane (L3)</b>	107-51-7	0.01 %	LT-P1	U	U	Dow Corning 1200 OS Primer for Silicone Seal Patches Custom Designs H.C.
PBT	DSL: Persistent, Bioaccumulative and inherently Toxic (PBiT) to aquatic organisms					

proportional mass concentration on 1200 OS Primer Clear: 70 - 90 %

<b>ZINC</b>	7440-66-6	0 - 11 %	LT-P1	U	U	Aluminium Extrusion for ETFE Cushion Frame
ACUTE AQUATIC	EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life (also in EU R-Phrases)					
CHRON AQUATIC	EU H-Statements: H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects					
FLAMMABLE	EU H-Statements: H250 Catches fire spontaneously if exposed to air					
REACTIVE	EU H-Statements: H260 In contact with water releases flammable gases which may ignite spontaneously					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>Manganese</b>	7439-96-5	0 - 7.81 %	LT-P1	U	U	Aluminium Extrusion for ETFE Cushion Frame
ENDOCRINE	TEDX: Potential Endocrine Disruptor					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>COPPER</b>	7440-50-8	0 - 7.81 %	LT-P1	U	U	Aluminium Extrusion for ETFE Cushion Frame
None found	No warnings found on HPD Priority lists					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>Chromium</b>	7440-47-3	0 - 3.9 %	LT-U	U	U	Aluminium Extrusion for ETFE Cushion Frame
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
Proportion of the Aluminium Alloy EN-AW 6060. Mass range due to different system configurations.						
<b>Unknown</b>	Unknown	0 - 0.1 %		U	U	Dow Corning 123 Silicone Seal Custom Designs H.C.
Unknown	Not disclosed by supplier					
Not disclosed by supplier						
<b>DECAMETHYLCYCLOPENTASILOXANE (D5)</b>	541-02-6	R	LT-P1			Feedstock, Polydimethylsiloxanes
PBT	OR P3: Priority Persistent Pollutant - Tier 1 (also in DSL, EU PBT)					
ENDOCRINE	TEDX: Potential Endocrine Disruptor					
<b>NAPHTHALENE</b>	91-20-3	R	LT-1			Feedstock, CARBON BLACK
PBT	NWMP Priority: Priority PBT (also in WA PBT, OSPAR)					
CANCER	NTP-RoC: Reasonably Anticipated to be Human Carcinogen (also in Prop 65, MAK, EU R-Phrases, EPA-C, IARC, EU H-Statements)					
ENDOCRINE	SIN: Equivalent concern, including endocrine disruption - Sin List 1.0 (also in TEDX)					
MAMMALIAN	EU R-Phrases: R22: Harmful if swallowed.					

ACUTE AQUATIC	EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life (also in EU R-Phrases)
CHRON AQUATIC	EU H-Statements: H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects
MULTIPLE	VwWwS: Class 3 Severe Hazard to Waters

**CERTIFICATIONS AND COMPLIANCE**

**Certifying Party** = First: Manufacturer's self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

**Applicable facilities** = Manufacturing sites to which testing applies.

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			
	Notes			
VOC Emissions	AgBB evaluation scheme (building products emissions) - 2015			Umwelt Bundesamt (UBA)
	1st party manufacturer claim	2009-12-02		<a href="https://google.healthymaterials.net/uploads/files/certifications/4256/1436955863.pdf">https://google.healthymaterials.net/uploads/files/certifications/4256/1436955863.pdf</a>
	Applies to all ETFE foil used in the Texlon system			
	The ETFE foil was tested for VOC emissions according to ISO 16000-3, 16000-06, and 16000-1. According to the independent laboratory results, emissions after one, three and ten days of storage show very low concentrations of the detected VOCs and SVOCs. Comparing the emission behaviour with the AgBB/DIBt thresholds, the sum concentrations for asked parameters were much lower than required. The ETFE fulfills the AgBB requirements completely. The break-off criteria allowed the test to be completed after 7 days rather than the standard 28 days. Also, the concentration of aldehydes were low. In addition, it can be said that the determined VOCs are harmless to health. Substances that are carcinogenic, mutagenic, or toxic to reproduction were not detected.			
VOC Content	N/A			
Recycled Content	Not tested			
LCA	Environmental Product Declaration (EPD)			UL Environment Inc.
	3rd party independent certification	2014-05-06	2019-05-05	<a href="http://productguide.ulenvironment.com/ProductDetail.aspx?productID=69076">productguide.ulenvironment.com/ProductDetail.aspx?productID=69076</a>
	all			

**ACCESSORY MATERIALS**

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products.

Note: This declaration is not intended to address hazards of the installation process.

Required or Recommended Product	URL for Companion Health Product Declaration
<b>Condition when required or recommended and/or other notes</b>	
Various fasteners, air supply systems, etc.	
Accessory materials will depend on site installation requirements	

**NOTES**