

# RETALVENT

Technical data sheet ALU-TEX foil and elbows

## Rigid UV-ALU-PVC covering for technical insulation use ALU\_TEX 350

ALU-TEX 350 is a multi layer laminate of aluminium, coated with a special UV protection film and a PVC backing. This system is highly punctured and tear resistant as well as flame retardant and can be used for exterior and interior facing of hot and cold insulation. It combines an excellent vapour barrier with water tightness. Due to its rolling curl effect it is an easily useable material for rapid covering. In this application one of the most important requirements is to be resistant to damaging environmental effects.

### Construction

- UV- Protection film
- Aluminium, glossy
- PVC

### Characteristics

The UV-ALU-PVC film is self-extinguishing by its nature. Depending on customer requirements we produce normal and low inflammable types of this film

Acid-,alkali-,salt solution-, fat-,oil-, bacterium- and fungus- resistance

Excellent physical features, such as flexibility and elasticity

Resistance to temperature change. Stability between 20 °C and 70 °C in internal use.

No special care or maintenance due to antistatic components.

Surface: smooth with dull finish on one side.

### Technical data

Total weight	495g/ m <sup>2</sup>
Thickness appr.	0,350 mm
Thickness tolerance	+/- 0,05 mm
Width	1000/1200/1065 mm
Width tolerance	+/- 2 mm
Tensile strength	min. 285 N/715 mm (EN ISO 527-3)
Elongation at break	35 % (EN ISO 527-3)
Tear strength	90 N (EN ISO 527-3)
Puncture Ø 3,0 mm	110 N(pr EN 14 477)
LOI(Limited oxygen index)	35,5 % O <sup>2</sup>
UV stability	Appr. 8 years (internal weatherometer-test)
Sd- value	1500
Temperature resistance	-25 to + 65 °C

Retalvent Ltd, Kaasiku tee 21, Rae village, 75310 , Rae county, Estonia

Phone +372 50 40 340, e-mail- [rein@retalvent.ee](mailto:rein@retalvent.ee)

Reg. nr 16226700 , VAT - EE102370243

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## Physical and chemical stability (f- UV –protection film)

Acids	Acetic acid/all concentrations	R	Chlorinated hydrocarbons	Carbon tetrachloride	P	
	50 % formic acid	R		Chlorinated pyphenyls	P	
	10% hydrochloric acid	R		Chloroform	R	
	30% hydrochloric acid	P		Trichlorethylene	R	
	10% and 35% hydrofluoric acid	R		Esters	Ethyl acetate	R
	10 % nitric acid	R			Hydrocarbons	Aliphatic hydrocarbons
	65% and 100% nitric acid	NR		Benzene		R
	30% and 85% phosphoric acid	R		Gasoline(petrol)	R	
	20 % sulphuric acid	P		Mineral oils	R	
	sulphur dioxide gas, dry	R		Toluene	R	
80% and above sulphuric acid	NR	Xylene	R			
Aldehydes	Acetaldehyde	R	Miscellaneous substances	Chlorine	R	
	Formaldehyde	R		Hydrogen peroxide	R	
Alcohols	Benzyl alcohol	P	Other organic solutions	Oxygen	R	
	Cyclohexanol	R		Water	R	
	Ethyl alcohol	R		Acetone	R	
	Glycerine	R		Diethylether	R	
	Glycol	R		Nitrobenzene	NR	
	Isopropyl alcohol	R		Phenol	NR	
Aqueous alkaline Solutions	Ammonium hydroxide	NR	Salt solutions	Alkaline carbonates	R	
	Calcium hydroxide	P		Dichromate	R	
	Sodium hydroxide	NR		Cyanides	R	
				Fluorides	R	

R -resistant

NR not resistant

P partly resistant

## Packaging

The films are rolled on cardboard cores with 5 mm wall thickness and 50 mm internal diameter . Ends of the rolls are fixed by adhesive tape and rolls are packed in PE film (as option) fixed also by PVC adhesive tape. Rolls are placed in wooden or paper box or on EUR pallets (800 x 1200 ). In Case of any questions and installation we kindly offer our service.

- Compact, space-saving packaging, required storage space per pallet; appr. 1 m<sup>2</sup>
- Rolls packaged lying on the pallet , thus easy to remove
- Pallets are currently not stackable
- Packing units: standard pallet 50 rolls of 25 m<sup>2</sup> each= 1250 m<sup>2</sup>
- Small pallet: 20 rolls of 25 m<sup>2</sup> each = 500 m<sup>2</sup>
- Roll length : 25 m for material with curl effect

## Approvals

These products conform to all relevant requirements of the building industry as approved by the Deutsches Institut für Bautechnik( German National Board of Building Industry). Also , a number of successful test results have been achieved in many West- European countries according to their own requirements.

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