

# Technical Data Sheet

## Protan SE 1.8 Membrane

### Product Description:

Protan SE is a high-quality polyester reinforced thermoplastic waterproofing membrane with high tensile and tear strength.

Protane SE contains stabilisers, which make the product resistant to high and low temperatures, UV-resistant and flame retardant.

### Application Areas:

- Protan SE membrane is to be used on exposed roof surfaces.
- The membrane can be used on all roofs of all shapes and sizes – whether flat, sloped or curved.
- The membrane is mechanically fastened over suitable substrates;
  - Protan SE can be used in warm roof construction over appropriate thermal insulation, such as Paratherm F foil faced polyisocyanurate (PIR) insulation or mineral wool.
  - Suitable load bearing substrates such as timber, sheet metal or concrete.
- Suitable for new, and subject to specification, refurbishment applications.



### Characteristics / Benefits:

- The membrane has a textured surface which provides an improved aesthetic finish.
- The membrane is welded together using hot air which provides a homogenous joint.
- Installation is safe without the use of an open flame.
- Weather dependent installation.
- Protan membrane can be recycled and has a low carbon footprint.

### Certification:



### System Fire Testing:

Test Standard: CEN/TS 1187: 2012

Classification Standard BS EN 13501-5: 2016

warringtonfire

Determination of external fire performance is a system test which will be influenced by the components with the roofing system.

Whilst Protan SE can be included in compliant B<sub>ROOF</sub> (t4) systems, always check with MOY Technical Services for the latest information on testing carried out.

### Application:

Installation must be carried out by installers trained and authorised by MOY Materials Ltd. The membrane is welded using hot air and shall be installed according to the Protan installation guidelines published by MOY Materials Ltd.



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### Technical Specification:

PROPERTIES			
PROPERTY	VALUE	UNIT	EN 13956 - TEST METHOD
Thickness	1.8 (-5/+10%)	mm	EN1849-2
Tensile strength L/T	≥ 1100/1100	N/50mm	EN12311-2(A)
Elongation L/T	≥ 15/15	%	EN12311-2(A)
Tear resistance (trapezoidal)	≥ 210	N	EN12310-2
Dimensional stability	± 0,5	%	1107-2:2001
Foldability at low temperature	≤ -25	°C	EN495-5
Resistance to static load	≥ 20	Kg	EN12730(C)
Resistance to impact	≥ 700	mm	EN12691(A)
Joint shear resistance	≥ 1000	N/50mm	EN12317-2
Shear resistance of joints-maximum peel	≥ 200	N/50mm	EN12316-2:2000
Water vapour resistance	24.5	m	ISO 12572:2001
Water tightness (10 kPa)	Pass		1928:2000 (A)
Exposure to UV	Pass>5000	h	EN 1297
Dangerous substances	None		
Hail resistance:			
Hard substrate	≥ 22		EN13583
Soft substrate	≥ 50		EN13583
Reaction to fire	Class E		EN13501-1
External fire performance			EN1187 (part 1, 2, 3 and 4)
	B <sub>ROOF</sub> (t1)*		EN13501-5
	B <sub>ROOF</sub> (t2)*		EN13501-5
	B <sub>ROOF</sub> (t3)*		EN13501-5
	B <sub>ROOF</sub> (t4)*		EN13501-5

\* External documentation for fire classification according to ENV 1187 part 1, 2, 3, and 4 for the most relevant substrates may be available on request.

### COLOURS

Top side	Dark grey / Light grey
Under side	Dark Grey

### DIMENSIONS / PACKAGING

Width	1m	2m
Length	15m	15m
Roll	15m <sup>2</sup> / 31.5kg + core	30m <sup>2</sup> / 63kg + core
Pallet	510m <sup>2</sup> / 1071kg + core and pallet	510m <sup>2</sup> / 1071kg + core and pallet

Other colours, widths and lengths may be available subject to order. Consult Moy Materials Ltd.

### Delivery form:

Rolls as above.

### Storage:

Protan membrane should be kept dry with the rolls placed on pallets and protected at the building site with tarpaulins or similar.

Rolls must be stored in their original package, horizontally on pallets and under cool and dry conditions



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between temperatures of +5 °C and +35 °C. They must be protected from direct sunlight, rain, snow and ice.

### **Health, Environment & Safety:**

There is no requirement for a safety data sheet according to EC-regulation 1907/2006, article 31.

The product does not harm the environment when used as specified.

### **Environment:**

Protan SE membrane contains no substances which are listed on REACH/ECHA's (European Chemicals Agency) candidate list.

The membrane contains no priority environmental pollutants or other relevant substances in quantities considered to be hazardous to health and the environment.

Leaching from the product is assessed to not adversely affect soil, ground water or drinking water.