

## RUBBERFUSE ST MEMBRANE

### I. DESCRIPTION

TPO/FPA (Flexible Polypropylene Alloy) membrane produced by extrusion of granules resulting from the incorporation of ethylene propylene rubber into a propylene matrix together with other additives as appropriate to the type of membrane. The Sintofoil membranes are in conformity to the CE marking when necessary.

### 2. CHARACTERISTICS (for TPO/FPA membrane layer, unless when shown\*)

Thickness (EN 1849-2)	mm	1.2	1.5	1.8	2.0
Standard roll size (EN 1848-2)	m	2.10 x 25 / 1.50 x 30			
Standard colours <sup>(1)</sup>		Grey - Black			
Weight per unit area (EN 1849-2)	kg/m <sup>2</sup>	1.08	1.35	1.62	1.8
Tensile strength (EN 12311-2)					
- Resistance L/T	N/mm <sup>2</sup>	16/15			
- Elongation at break L/T (membrane)	%	700/700			
Low temperature flexibility (EN 495-5)	°C	≤ - 40 <sup>(2)</sup>			
Dimensional stability L/T (EN 1107-2)	%	≤ 0.5			
Nail tear resistance L/T (EN 12310-1)	N	330/240	450/400	550/500	650/600
Moisture resistance factor (EN 1931)	μ	90,000			
Static indentation (EN 12730)					
- on concrete		≥ L 20	≥ L 25	≥ L 35	≥ L 35
- on EPS		≥ L15	≥ L 20	≥ L 20	≥ L 20
Dynamic impact (EN 12691/B)		> 1000			
Hail resistance (EN 13583)	m/s	≥ 26			
Watertightness (60 kPa) (EN 1928)		Absolute			
Welded seam resistance					
- Shear (EN 12317-2)		Pass (Outside seam area)			
- Peeling (EN 12316-2)	N/5cm	290			
Durability					
- UV resistance – 2500 h (EN 495-5)	Δ%	Pass			
- Heat ageing					
Tensile strength (EN 12311-2)	Δ%	≤ 5			
Elongation at break (EN 12311-2)	Δ%	≤ 5			
Wind uplift resistance (MAST Fixing)					
- Wind load (rupture)	Pa	≥ 5500			
- Permissible load per fixing	N	726			
Resistance to micro-organisms (EN ISO 846)		Level 2			
Root Resistance FLL		Pass			
Reaction to fire	EN 13501-1	E Class			
External exposure to fire	EN 13501-5	Broof t1			
Potable water contact (DW type)	BS 6920:1.7	Non toxic			

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### 3. FIELDS OF APPLICATION

- Roofing of non-accessible roofs on various substrates: concrete, steel deck and wood;
- Waterproofing of parking decks and garden roofs

### 4. CHEMICAL RESISTANCE

Sintofoil membrane is of polyolefinic nature i.e. has an intrinsic chemical stability. This implies the membrane can be in contact with many substances of either acid or basic type while maintaining its properties. Long term exposure to highly aggressive agents, especially at elevated temperature, requires a specific case by case evaluation.

### 5. APPLICATION

Sintofoil membranes are installed in compliance with the specifications and details described in the technical manual as published by Imper Italia / Rubber Division.

Roofing and waterproofing systems using Sintofoil membranes are installed by applicators trained and approved by the Technical Department of Imper Italia / Rubberfuse Division.

(1) Top ply colour: Bottom ply always black. White, lead grey and other colours available on special order;

(2) Not tested at lower temperatures.

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