

SINTOFOIL RG REFLECTA WHITE



1. PRODUCT DESCRIPTION

Synthetic waterproofing membrane produced by co-extruding a UV resistant elastomerized TPO/FPA thermoplastic olefin and flexible polypropylene alloy with a glass fiber reinforcing mat that ensures dimensional stability. The top face of the membrane features the REFLECTA WHITE treatment, as the entire layer covering the reinforcing mat is mass colored to increase reflectance and emittance, giving the membrane a Solar Reflectance Index (SRI) of 102%. The bottom face is black, providing a signal layer so that any damage occurring during or after installation will be immediately apparent.

Also available is the SINTOFOIL RG/FB REFLECTA WHITE version, with nonwoven polyester fabric bonded to the bottom face. SINTOFOIL RG REFLECTA WHITE membranes comply with CE marking requirements where applicable.

2. SPECIFICATIONS ⁽¹⁾

Standard thickness (EN 1849-2) ⁽²⁾	mm	1.5	1.8	2
Standard dimensions (EN 1848-2)	m	2.10x25 / 1.5x30		
Colors		Reflecta white		
SRI - Solar Reflectance Index (ASTM Standard E1980)	%	102		
Density (EN 1849-2)	kg/m ²	1.37	1.64	1.82
Tensile properties (EN 12311-2)				
• Tensile strength, L/T	N/50mm	650/600	750/750	800/800
• Elongation, L/T	%		700/700	
Cold flexibility (EN 495/5)	°C	≤-40 ⁽³⁾		
Dimensional stability (EN 1107-2)	%	≤0.1		
Tear resistance, L/T (EN 12310/1)	N	450/400	500/450	600/550
Water vapor permeability (EN 1931)	μ	50.000		
Puncture resistance – Static indentation (EN 12730/B)		≥L25		
Puncture resistance – Dynamic indentation (EN 12691/B)	mm	≥1000		
Hail resistance (EN 13583)	m/s	≥30 *		
Watertightness (60kPa) (EN 1928)		Absolute		
Joint strength		Passes test		
- Tensile strength (EN 12317-2)		(specimen fails outside bond area)		
- Peeling (EN 12316-2)	N/5cm	≥58		
Durability				
• Resistance to artificial UV weathering (EN 1224-5000 h)		No surface damage or significant changes in cold flexibility as per EN 495/5		
• Heat aging in air				
- Change in tensile strength (EN 12311-2)	Δ%	-5		
- Change in ultimate elongation (EN 12311-2)	Δ%	-5		
Wind load resistance (wind suction test) (UEAtc)				
- Mechanically retained system	Pa	≥6000		
Fire reaction rating (EN 13501-1)		Class E ⁽⁴⁾		
Fire resistance (ENV 13501-5)		B Roof (t1) ⁽⁵⁾		
Resistance to algae and microorganisms (EN ISO 846 level 2)		Complies with requirements		
Root resistance (FLL)		Passes test		

3. RECOMMENDED USES

SINTOFOIL REFLECTA WHITE membranes are designed for:

- Mechanically retained waterproofing for exposed roofs, Cool Roofs in particular.
- Adhesive bonded waterproofing on exposed roofing (RG/FB Reflecta White).

Note: Given the versatility and reliability of SINTOFOIL membranes, other applications can be developed with the assistance of the Imper Italia RUBBERFUSE Division Technical Services.

4. CHEMICAL RESISTANCE

SINTOFOIL RG REFLECTA WHITE membranes are particularly resistant to contact with a wide range of acids and bases with no loss in performance.

However, suitability for applications involving prolonged contact with specific corrosive agents, particularly at high temperatures, must be evaluated on a case by case basis.

5. METHODS OF APPLICATION

SINTOFOIL membranes are designed for easy bonding with a hot air gun, as no adhesives or other materials of any kind are required.

Design solutions and application methods are illustrated in the technical manual published by the RUBBERFUSE Division.

Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorized by RUBBERFUSE Division Technical Services.

Notes: (1) Tolerances as per EN 13956 and/or UEAtc Directives.

(2) 1.2 mm thickness available on request.

(3) Not tested at lower temperatures.

(4) Fire Labs Test Report No. FLT KE2157207.

(5) Warringtonfiregent - Classification Report for roofs/roof coverings exposed to external fire No. 13561B (Sintofoil ST/non combustible substrate).

(*) = Not tested at higher speeds

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