

SINTOFOIL RC/FR FM



CE

Description

Synthetic waterproofing membrane obtained by coextrusion of a polypropylene elastomerised polyolefin (FPA = Flexible Polypropylene Alloy), with special non-toxic substances which give the finished product specific fire resistance characteristics, resistant to ultraviolet rays, reinforced by a composite reinforcement in polyester / glass fibers which makes it dimensionally stable.

The membrane is made with contrasting colors between the upper and lower sides (signal layer) to allow visual control of the surface integrity of the same during and after the laying phase. Available in the color White Reflecta, with high reflectance, with SRI = 102%.

Certifications

Sintofoil membranes are manufactured in compliance with ISO 9001 standards; it is equipped with FM Approval and complies with CE marking requirements, where required.

Fields of application

Specific use

Creation of waterproofing layers applied with "mechanical fixing" for exposed roofing.

.....

Given the versatility and reliability of SINTOFOIL membranes, other particular uses can be examined by requesting assistance from the Technical Office of Imper Italia srl - Rubberfuse Division.

Application

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

Roofing and waterproofing systems using Sintofoil membranes are only installed by applicators trained, approved and monitored by the Technical Department of Imper Italia Synthetic Division.



| TECHNICAL FEATURES (1) | | | | | | | | |
|---|----------------------------------|------------|-------------|--|---------------|---------------|----------|--|
| Features | Standards | U.M. | Tolerance | Values | | | | |
| Standard thickness | EN 1849-2 | mm | (-5/+10%) | 1,2 | 1,5 | 1,8 | 2,0 | |
| Standard colours (2) | - | - | | Grey-Black | | | <u>'</u> | |
| Tensile properties | | | | | | | | |
| Tensile strength L/T | EN 12311-2 | N / 50 mm | <u>></u> | 1100 / 1100 | | | | |
| Elongation at break L/T | EN 12311-2 | % | ≥ | 25 / 25 | | | | |
| Dimensional stability | EN 1107-2 | % | <u>≤</u> | 0,1 | | | | |
| Cold flexibility | EN 495/5 | °C | < | -40 ⁽³⁾ | | | | |
| Tear resistance L/T | EN 12310/1 | N | | 600 / 550 | | | | |
| Water vapour permeability (μ) | EN 1931 | - | | 50.000 | | | | |
| Resistance to static loading | EN 12730/B | - | ≥ | L 25 | | | | |
| Resistance to impact | EN 12691/B | mm | ≥ | 1200 | | | | |
| Hail resistance | FM Approval Standard Nr. 4470 | - | | pass the test (SH - severe hail) | | | | |
| Watertightness (60 kPa) | EN 1928 | | | Absolute | | | | |
| Welded seam resistance | | | | | | | | |
| • Tensile | EN 12317-2 | - | | Pass (fails outside seam area) | | | | |
| • Peel | EN 12316-2 | N / 50 mm | <u>></u> | 290 | | | | |
| Durability | | | | | | | | |
| • UV resistance | EN 1297-5000 h | | | No surface damage or significant changes in cold flexibility as per EN 495/5 | | | | |
| Heat aging in air | | | | | | | | |
| Tensile strength | EN 12311-2 | $\Delta\%$ | ≤ | -5 | | | | |
| Elongation at break | EN 12311-2 | $\Delta\%$ | <u><</u> | -5 | | | | |
| Wind uplift resistance | | | | | | | | |
| Mechanical Fixing system | FM Approval Standard Nr. 4470 | | | meet 1-105 FM Wind Classification | | | | |
| Fire resistance | FM Approval Standard Nr. 4470 | | | mee | t ASTM E 108 | Class A - 1/4 | in 12 | |
| | EN 13501-1 | | | | Broof(t3) | | | |
| Resistance to algae and microorganisms | ISO 846 level 2 | | - | pass the test | | | | |
| Root resistance | EN 13948 | | - | | pass the test | | | |

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

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

(3) Not tested at lower temperatures.

| PRODUCTION STANDARDS | | | | | |
|----------------------|---|--------------|--|--|--|
| Width | m | 1,50 / 2,10 | | | |
| Length (*) | m | 30 / 25 | | | |
| Colour | | Grey / Black | | | |

 $^{^{(\}star)}$ Different thicknesses and lengths are available on demand and for minimum quantities.

Rev. 01 (11-18)

Considerando le diverse situazioni d'impiego dei prodotti e l'intervento di fattori da noi non dipendenti (supporti, condizioni di esercizio, in osservanza delle prescrizioni, ecc.), non è possibile alla IMPER ITALIA srl assumere responsabilità in merito ai risultati ottenuti. Il progresso unito alla costante ricerca dei massimi livelli prestazionali possono apportare - nel tempo - modificazioni alle informazioni contenute in questo stampato, senza che la IMPER ITALIA srl debba darne preavviso a tutti gli interessati.











Imper Italia srl Via Volta, 8 10072 Mappano (TO) Italy Tel (+39) 011 222.54.99 · Fax (+39) 011 222.54.80

imper@imper.it · www.imper.it