Sarnafil® G 410-80 is a PVC thermoplastic membrane produced with an integral fiberglass mat reinforcement for excellent dimensional stability, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

USES
Sarnafil G 410 is used in adhered applications with various adhesives over various substrates.

AREAS OF APPLICATION
- New Roofs
- Reroofs
- Recovers

PRODUCT DESCRIPTION

CHARACTERISTICS / ADVANTAGES
- Excellent dimensional stability
- Factory applied lacquer coated to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Superior fire resistance

APPROVALS / STANDARDS
- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
**PRODUCT INFORMATION**

**Chemical Base**
High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant, and fiberglass reinforcement with a unique lacquer coating on the top surface.

**Reinforcing Material**
Fiberglass

**Packaging**
*80 mil (2.0 mm) Membrane*
6.56 ft x 49.2 ft (2 m x 15 m) roll, 175 lbs (79 kg) per roll, 19 rolls per pallet

**Appearance / Color**
- Top: Copper Brown, Evergreen, and Lead Gray
- Bottom: Gray

**Shelf Life**
N/A

**Storage Conditions**
Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are unacceptable due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect membrane weldability.

**Overall Thickness**
80 mil (minimum thickness) 45 mil
(80 mil (minimum thickness)
45 mil
ASTM D-751
ASTM Type II D-4434 Spec. Requirement)

**Thickness Above Scrim**
40 mil
16 mil
(40 mil
16 mil
ASTM D-7635
ASTM Type II D-4434 Spec. Requirement)

**TECHNICAL INFORMATION**

**Resistance to Static Puncture**
Pass
33 lbf (15 kg)
(ASTM D-5602
ASTM Type II D-4434 Spec. Requirement)

**Resistance to Dynamic Puncture**
Pass
7.3 ft-lbf (10 J)
(ASTM D-5635
ASTM Type II D-4434 Spec. Requirement)

**Tensile Strength**
110 lbf (489 N)
55 lbf (245 N)
(ASTM D-751
ASTM Type II D-4434 Spec. Requirement)

**Elongation at Break**
250 & 220% MD & CMD
250 & 220% MD & CMD
(ASTM D-751
ASTM Type II D-4434 Spec. Requirement)

1 MD = Machine Direction, CMD = Cross Machine Direction.

**Linear Dimensional Change**
-0.01%
0.1%
(ASTM D-1204
ASTM Type II D-4434 Spec. Requirement)

**Tear Strength**
22 lbf/in (98 N)
10 lbf/in (45 N)
(ASTM D-1004
ASTM Type II D-4434 Spec. Requirement)

**Seam Strength**
Pass
75% of original
(ASTM D-751
ASTM Type II D-4434 Spec. Requirement)

2 Failure occurs through membrane rupture not seam failure.

**Low Temperature Bend**
Pass
Pass -40°F (-40°C)
(ASTM D-2136
ASTM Type II D-4434 Spec. Requirement)

**Retention of Properties after Heat Ageing**
Tensile Strength, % of original: Pass
Elongation, % of original: Pass
Tensile Strength, % of original: 90
Elongation, % of original: 90
(ASTM D-3045
ASTM D-751
ASTM Type II D-4434 Spec. Requirement)
UV Exposure

<table>
<thead>
<tr>
<th>Time</th>
<th>Cracking</th>
<th>Discoloration</th>
<th>Crazing</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 hours</td>
<td>None</td>
<td>Negligible</td>
<td>None</td>
</tr>
<tr>
<td>5,000 hours</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(ASTM G-154)

Weight Change after Immersion in Water

<table>
<thead>
<tr>
<th></th>
<th>1.7% ± 3.0%</th>
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(ASTM D-570)

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil G 410 is installed after proper preparation of the approved substrate. The membrane is unrolled into Sarnacol® adhesive in accordance with Sika’s technical requirements and then pressed into place with a minimum 75 lb (34 kg) steel roller. Sarnafil G 410 seams are heat-welded together by trained operators using hot-air welding equipment. Different Sarnacol adhesives require different application methods. Please consult Sika’s Specifications or Applicator Handbook for detailed installation procedures.

MAINTENANCE

Standard maintenance of Sarnafil systems should include regular inspections of flashings, drains, and termination sealants at least twice a year and after each storm.

AVAILABILITY/WARRANTY

AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.
LEGAL DISCLAIMER

• KEEP CONTAINER TIGHTLY CLOSED
• KEEP OUT OF REACH OF CHILDREN
• NOT FOR INTERNAL CONSUMPTION
• FOR INDUSTRIAL USE ONLY
• FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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