

Sarnafil G410 Peel & Stick EnergySmart Roof[®] Membrane



Overview:	The Sarnafil G410 Peel & Stick (PS) EnergySmart Roof [®] membrane by Sika Sarnafil is the first and only commercial single-ply membrane to be labeled under the Environmental Protection Agency's EnergyStar [®] program that can demonstrate more than 40 years of formulation consistency and history. G410 PS is used within the Adhered System. G410 PS is produced in a standard width of 6.5 ft. (2 meters) eG410 PS.
Composition:	G410 PS is a high quality product containing ultraviolet light stabilizers, flame retardant, and reinforcement. G410 PS has a unique lacquer coating applied to the top of the membrane to minimize staining from airborne dirt and pollutants. The color of the weathering surface of G410 PS is bright white and the underside is gray.
Features:	The G410 PS's unique manufacturing process prevents any stress from being applied into the membrane, resulting in the most time to have a no built-in stress at the time of production and to have a fully-encapsulated reinforcement with no risk of delaminating or water-wicking. The Adhered System uses G410 PS with a factory applied adhesive backing and release film. The factory applies adhesive backing eliminated the inconveniences of liquid adhesives, most notably the odors from solvent based adhesives. G410 PS is thicker than many competitive products which can improve weldability and service life. G410 PS is available in the following thicknesses: 48 mil (1.2 mm) and 60 mil (1.5 mm). The dimensional stability of G410 PS is excellent.
Packaging:	G410 PS is wrapped in a protective film and strapped to a wood pallet.
Installation:	G410 PS is installed by Sika Sarnafil Authorizes Applicators. Unroll adjacent rolls of G410 PS over a properly prepared substrate. Position to allow a 3 in. (75 mm) overlap on the selvage edge side of the sheet. Removing the Release Film – Option 1: Fold back half the width of the membrane onto itself exposing the release film. Remove the release film. Carefully turndown the G410 PS membrane onto the substrate insuring there are no wrinkles or creases in the sheet. Fold back the other half of the membrane and repeat the process. Removing the Release Film – Option 2: Remove the release film from the bottom side of the membrane. Note: Insulation plates can interfere with this process by prematurely tearing the release film. After the release film has been removed, immediately adhere the membrane to the substrate by pressing the sheet firmly in place with a weighted, foam cover lawn roller. The G410 PS seams are then heat-welded together by trained operators using Sika Sarnafil's hot air welding equipment. Weld G410 coverstrips at all G410 PS seams that do not have a factory selvage edge such as butt joints and cut edges. Do not apply G410 PS at temperatures below 50° F (5° C).

Availability:	G410 PS is available directly from Sika Sarnafil Authorized Applicators. Contact your Sika Sarnafil Regional office or visit our website for further information.
Warranty:	Upon successful completion of the installed roof by the Sika Sarnafil Authorized Applicator, Sika Sarnafil can provide a Warranty to the Building Owner via the Authorized Applicator.
Maintenance:	G410 PS requires no maintenance. As a prudent preventative measure, Sika Sarnafil recommends that the Owner or that the Owner's designated representative inspect the installed roof system for damage, plugged drains, weathered sealants, etc. at least twice a year and after each storm.
Technical:	Sika Sarnafil provides technical support. Technical staff is available to advise Applicators as to the correct installation methods of G410 PS EnergySmart Roof membrane.

Technical Data (as manufactured):

Parameters	ASTM Test Method	ASTM D-4434 Spec. Requirement	Typical Physical Properties
Reinforcing Material	--	--	Fiberglass
Release Film & Adhesive	--	--	--
Overall Thickness(1), min.	D638	0.045 (1.14)	(see note 1)
Tensile Strength, min., psi (MPa)	D638	1500 (10.4)	1600 (11.1)
Elongation at Break, min.	D638	250% M.D.	270% M.D.
Seam Strength(2), min., (% of tensile strength)	D638	230% C.M.D.	250% C.M.D.
Retention of Properties After Heat Aging	D3045	75	80
Tensile Strength, min., (% of original)	D638	--	--
Elongation, min., (% of original)	D638	90	95
Tearing Resistance, min., lbf (N)	D1004	90	90
Low Temperature Bend, -40 °F (-40 °C)	D2136	10 (45.0)	14 (63.0)
Accelerated Weathering Test (Florescent Light, UV exposure)	G53-96	Pass	Pass
Cracking (7x magnification)	--	5,000 Hours	10,000 Hours
Discoloration (by observation)	--	None	None
Crazing (7x magnification)	--	Negligible	Negligible
Linear Dimensional Change	D1204	None	None
Weight Change After Immersion in Water	D570	0.10% max.	0.02%
Static Puncture Resistance, 33 lbf (15 kg)	D5602	± 3.0% max.	2.5%
Dynamic Puncture Resistance, 7.3 ft-lbf (10 J)	D5635	Pass	Pass
Initial Solar Reflectance	E903	Pass	Pass
Emissivity	E408, C1371, Other	--	0.83
Solar Reflective Index (SRI)	E1980	--	0.90



As an ENERGY STAR® Partner, Sika Sarnafil Inc. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency on both low-slope and steep-slope construction. (1)Typical Physical Properties data is applicable for 0.048 in. (1.2 mm) membrane thickness and greater. (2)Failure occurs through membrane rupture not seam failure.



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Disclaimer: The information, and, in particular, the recommendation relating to the application and end-use of Sika Sarnafil products, are given in good faith based on Sika Sarnafil's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika Sarnafil recommendations. In practice, the differences in materials, substrates and actual site conditions are such that **no warranty in respect of merchantability of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, may be inferred from this information.** The user of the product must determine the product's suitability for the intended application and purpose. Sika Sarnafil reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.