



## Thermoplastic Single Ply and Multi-Ply Roofing Systems

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### **Solar Reflectance Index (SRI) Value**

Flex Membrane International is pleased to announce the addition of the Solar Reflectance Index or SRI value for the Flex Cool Roof Membranes.

The definition for Soar Reflectance Index (SRI) is described in the Lawrence Berkeley National Laboratory pamphlet containing definitions and terms for Reflectance properties of roofing materials. It defines SRI as a measure of the roof's ability to reject solar heat as shown by a small temperature rise. It is defined so that a standard black (reflectance 0.05, emittance 0.90) is 0 and a standard white (reflectance 0.80, emittance 0.90) is 100. Warm roofing materials will have low or even negative values while cool roofing materials may have high values even greater than 100.

The Solar Reflectance Index (SRI) is calculated in accordance with ASTM E 1980.

The Flex Cool Roof Membrane was tested by an independent third party CRRC accredited laboratory. The testing determined the Flex Cool Roof membrane to have a Solar Reflectance Index (SRI) value of: **109**.

The LEED for New Construction Version 2.2 requires the SRI value for low slope roof material to be equal to or greater than: **78**. The Flex Cool Roof Membrane easily qualifies for the 1 credit point provided under Heat Island Effect: Roof.

As a further comparison of Solar Reflectance Index Values the following types of roofing products have been measured by LBNL and the Florida Solar Energy Center:

<u>Product</u>	<u>SRI</u>
Black EPDM	-1
White Granular Surfaced	
Modified Bitumen	28
Light Gravel Surfaced BUR	37
White Kynar Coated Metal	82

Flex's Cool Roof Membrane with an **SRI Value of 109** provides the Building Owner with one of the coolest choices for roofing. Thank you for considering Flex Cool Roofing Systems for all your roofing application and specifications.