

# StressPly® IV Membranes

StressPly IV • StressPly IV Mineral • StressPly IV UV Mineral



## OVERVIEW & FEATURES

StressPly IV membranes are a high strength, fiberglass reinforced, rubber modified roof membrane designed to be used in torching applications. The 195 mil membrane offers not only high strength, but also a high percentage of quality blended Styrene-Butadiene-Styrene (SBS) rubber compound. StressPly IV membranes incorporate a burn-off backer to indicate when proper heat is obtained during application.

StressPly IV membranes can be used in conjunction with Garland's HPR® products and with conventional glass base sheets or fiberglass felt underlayment. In addition, StressPly IV membranes can be used as the top ply in a two ply flashing system. They can also be used to repair splits, cracks or other deteriorated areas of existing built-up roofs.

**Unmatched Reflectivity** - The StressPly IV UV Mineral membrane incorporates the unique Sunburst™ mineral, which provides long-term protection and added energy savings. The superior reflectivity of this mineral protects the StressPly IV UV Mineral membrane from UV damage and decreases under roof temperatures. Sunburst mineral membranes exceed the minimum requirement for LEED SS 7.2 Heat Island Effect (Roof) with an SRI of 89 as tested by the Cool Roof Rating Council (CRRC).

**Rubber Technology** - StressPly IV membranes are formulated with a high quality SBS rubber polymer, offering unmatched low temperature flexibility, weathering and elastomeric properties. Adequate mixing of the polymer ensures proper phase inversion which optimizes the rubber's performance.

**Security in Multi-Ply Applications** - StressPly IV membranes are the top component of a multi-ply system. They combine the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems. This unique combination minimizes dependence on perfect workmanship, contact adhesive seaming, etc.

## APPLICATION

StressPly IV membranes are the torchable top layer of a modified roof system. Two plies of ASTM D 2178, Type IV or VI fiberglass felt are solidly bonded to the approved substrate. The StressPly IV membrane is then solidly adhered to these base layers by torching.

StressPly IV membranes can also be applied in a two ply torch-applied modified system. Garland's HPR Torch Base Sheet is applied to the approved substrate and the StressPly IV membrane is solidly torch adhered to the torch base sheet.

# StressPly® IV Membranes

Technical Data	StressPly IV	StressPly IV Mineral	StressPly IV UV Mineral
<b>Tensile Strength</b>	*MD 210 lbf./in. (36.75 kN/m) *XD 210 lbf./in. (36.75 kN/m) **MD 250 lbf./in. (44 kN/m) **XD 250 lbf./in. (44 kN/m)	*MD 210 lbf./in. (36.75 kN/m) *XD 210 lbf./in. (36.75 kN/m) **MD 250 lbf./in. (44 kN/m) **XD 250 lbf./in. (44 kN/m)	*MD 210 lbf./in. (36.75 kN/m) *XD 210 lbf./in. (36.75 kN/m) **MD 250 lbf./in. (44 kN/m) **XD 250 lbf./in. (44 kN/m)
<b>*Tear Strength</b>	MD 250 lbf. (1112 N) XD 250 lbf. (1112 N)	MD 250 lbf. (1112 N) XD 250 lbf. (1112 N)	MD 250 lbf. (1112 N) XD 250 lbf. (1112 N)
<b>*Elongation</b>	MD 6.0% XD 6.0%	MD 6.0% XD 6.0%	MD 6.0% XD 6.0%
<b>*Low Temperature Flex</b>	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)

Finished membrane meets and/or exceeds ASTM D 6163, TYPE III.

Test Method ASTM D 5147 is tested at:

\* 2 in./min @ 73.4 ± 3.6°F \*\* 0.08 in/min @ 0 ± 3.6°F  
(50 mm/min @ 23 ± 2°C) (2.0 mm/min @ -18 ± -3°C)

Roll Dimensions	StressPly IV	StressPly IV Mineral	StressPly IV UV Mineral
<b>Width</b>	3 ft. 3 in. (1m)	3 ft. 3 in. (1m)	3 ft. 3 in. (1m)
<b>Length</b>	26 ft. 2 in. (7.98 m)	26 ft. 2 in. (7.98 m)	26 ft. 2 in. (7.98 m)
<b>Weight</b>	110 lbs. (49.9 kg)	125 lbs. (56.7 kg)	125 lbs. (56.7 kg)
<b>Nominal Thickness</b>	180 mils (2,921 microns)	195 mils (4,953 microns)	195 mils (4,953 microns)
<b>Net Coverage</b>	75 sq. ft. (6.96 m²)	75 sq. ft. (6.96 m²)	75 sq. ft. (6.96 m²)
<b>Packaging</b>	20 rolls/pallet	20 rolls/pallet	20 rolls/pallet

Eco-Facts	StressPly IV	StressPly IV Mineral	StressPly IV UV Mineral
<b>Recycled Content</b>			
<b>Pre-Consumer</b>	15%	—	—
<b>Post-Consumer</b>	0.5%	—	—
<b>Reflectance</b>	—	0.45	***0.72
<b>Emittance</b>	—	0.87	***0.90
<b>SRI</b>	—	51	***89

\*\*\*Sunburst Mineral (0700-0029a) CRRG results.

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.

Installation of this product with hot oxidized asphalt may result in exposure to hazardous chemicals. Special care and attention for proper product installation must be followed in all cases. For specific details refer to the NIOSH safe handling practices in publication No. 2003-107, as well as OSHA standard 1910.134 for further exposure precautions.



0700-0029  
Sunburst Mineral on  
StressPly IV UV Mineral



StressPly IV UV Mineral product is protected by U.S. Patent # 6,933,007

For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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