# INNOVI ™ TPO

*Featuring* **MATRIX** ™ *Performance Weathering Technology*

# InnoviTPO™ | 45-Mil
## Single-Ply Membrane

**Stock #** 60XX060, 60XX170, 60XX173

**Rolls Per Pallet:** 10

**Thickness:** 45 mil; 0.045 in.; 1.14 mm

**Weight:** 0.23 lb./ft.² (1.1 kg/m²)

**Colors:** White, Grey, Tan

**Roll Sizes & Area Coverage:**
5 ft. x 100 ft. (1.5 m x 30.5 m) = 500 ft.² (46 m²)
6 ft. x 100 ft. (1.9 m x 30.5 m) = 600 ft.² (56 m²)
8 ft. x 100 ft. (2.4 m x 30.5 m) = 800 ft.² (74 m²)
10 ft. x 100 ft. (3.0 m x 30.5 m) = 1,000 ft.² (93 m²)
12 ft. x 100 ft. (3.8 m x 30.5 m) = 1,200 ft.² (112 m²)

**Note:** Grey and Tan lead times are subject to product availability; volume minimums are required.

All reported values are nominal.

- Meets or exceeds the requirements of ASTM D6878.
- Exceptional Weathering Chemistry.
- Outstanding Energy Efficiency.
- Optimum Weld Window.

## Performance Innovation

IKO has optimized the ideal product weathering chemistry, bringing the future of roofing technology to the commercial rooftop. Designed with the proprietary **Matrix™** weathering formulation, IKO InnoviTPO continues to reinforce IKO's reputation for performance innovation. Matrix's exceptional weathering chemistry makes InnoviTPO highly durable and able to withstand harsh climate conditions. It is exceptionally resistant to ultraviolet and infrared radiation, ozone and mold.

## Energy Efficient

As a highly reflective "cool roof" membrane, IKO InnoviTPO is an ideal choice for specifiers designing in environments that demand maximum energy efficiency. Additionally, TPO is chlorine-free, and the IKO manufacturing process is designed to result in net zero waste of the TPO product itself.

## Ease of Installation

IKO InnoviTPO is flexible and has excellent lay-flat characteristics, greatly enhancing the installation process. Contractors especially value the exceptional weldability within wide temperature windows, allowing more scheduling and application options.

**IKO | COMMERCIAL®**

Specify *with* Confidence.

# INNOVI TPO

Featuring **MATRIX**™ Performance Weathering Technology

## InnoviTPO™ | 45-Mil
## Single-Ply Membrane

*IKO InnoviTPO meets or exceeds the requirements of ASTM D6878 which measures top-ply thickness over scrim, elongation, breaking and tearing strength, linear dimensional change and abrasion resistance.*

### Installation:

1. Substrates must be clean, dry, smooth and free of sharp edges, fines, loose or foreign materials, oil, grease and all other materials that could damage the membrane.
2. All rough surfaces that can damage the membrane shall be repaired to provide a smooth substrate.
3. All surface voids greater than a 1/4-inch (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. IKO InnoviTPO membrane should be installed as a continuous roofing or waterproofing layer on the roof. Rolls must be overlapped (side laps and end laps) prior to heat-welding the seam areas.
5. IKO InnoviTPO membrane should be installed in accordance with current IKO specifications, details and technical requirements, as found at www.iko.com/comm.

**Storage:** Store membrane rolls in their original packaging and pallets, in a cool, dry area. Do not stack more than two pallets high.

### Physical Properties

| PROPERTY | UNITS | TEST METHOD | ASTM D6878 SPECIFICATION | IKO INNOVI 45-MIL TYPICAL PERFORMANCE |
|---|---|---|---|---|
| Nominal Thickness: min. | in. (mm) | ASTM D751 | 0.039 (1.0) | 0.046 (1.1) |
| Thickness Over Scrim: | in. (mm) | ASTM D7635 | 0.015 (0.38) | 0.016 (0.40) |
| Breaking Strength: (MD/XD): | lbf (N) | ASTM D751, Grab Method | 220 (979) | 275/275 (1223/1223) |
| Elongation at Break: (MD/XD) | % | ASTM D751, Grab Method | 15% | 30/30 |
| Tearing Strength: (MD/XD) | lbf (N) | ASTM D751 | 55 (245) | 60/80 (266/356) |
| Brittleness Point: | °F (°C) | ASTM D2137 | -40 (-40) | Pass |
| Ozone Resistance: | n/a | ASTM D1149 | No Cracks, 7x | Pass |
| Linear Dimensional Change: | % | ASTM D1204 | ± 1 %, max | < 0.1 |
| Water Absorption: | % | ASTM D471 | ± 3 %, max | 1.7 |
| Factory Seam Strength: min. | lbf (N) | ASTM D751 | 66 (290) | > 66 (290) |
| Water Vapor Permeance: | Perm (ng/pa·s·m²) | ASTM E96 | n/a | < 0.1  (< 6) |
| Air Permeance: | L/(s·m²) | ASTM E2178 | n/a | < 0.20 |
| Static Puncture Resistance: | lbf (N) | ASTM D5635 | n/a | Pass |
| Dynamic Puncture Resistance: | n/a | ASTM D5635 | n/a | Pass |
| Fungi Resistance: | n/a | ASTM G21 | n/a | No growth |

### Physical Properties after heat aging

| | | | | |
|---|---|---|---|---|
| Weight change (mass), max: | % | ASTM D471 | ± 1.5 %, max | ≤ 0.50 |
| Breaking Strength, % of control (MD/XD): | % | ASTM D751, Grab Method | 90 %, min | > 90 |
| Elongation at Break, % of control (MD/XD): | % | ASTM D751, Grab Method | 90 %, min | > 90 |
| Tearing Strength, % of control (MD/XD): | % | ASTM D751, Grab Method | 60 %, min | > 60 |

### Physical Properties after weathering

| | | | | |
|---|---|---|---|---|
| Weather Resistance: | kJ/m² | ASTM G155 | Min. 10,800 | Pass |

### Radiative Properties

| | | | WHITE | GREY |
|---|---|---|---|---|
| Solar Reflectance - initial: | n/a | ASTM C1549/E903 | 0.78 | 0.55 |
| Solar Reflectance - 3 year aged: | n/a | ASTM C1549/E903 | 0.73 | 0.53 |
| Thermal Emittance - Initial: | n/a | ASTM C1371/E403 | 0.89 | 0.91 |
| Thermal Emittance - 3 year aged: | n/a | ASTM C1371/E403 | 0.88 | 0.91 |
| Solar Reflectance Index (SRI) - Initial: | n/a | ASTM E1980 | 97 | 66 |
| Solar Reflectance Index (SRI) - 3 year aged: | n/a | ASTM E1980 | 90 | 63 |

### LEED Information

| PROPERTY | TYPICAL VALUES |
|---|---|
| Pre-Consumer Recycled Content: | 5% |
| Post-Consumer Recycled Content: | 0% |
| Manufacturing Location: | Hagerstown, MD, USA |
| Initial SRI – White: | 97 |
| Initial SRI – Grey: | 66 |

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CRRC RATED PRODUCT

FM APPROVED

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