

GAF TPO VS. EPDM Brochure

(COMEG176)

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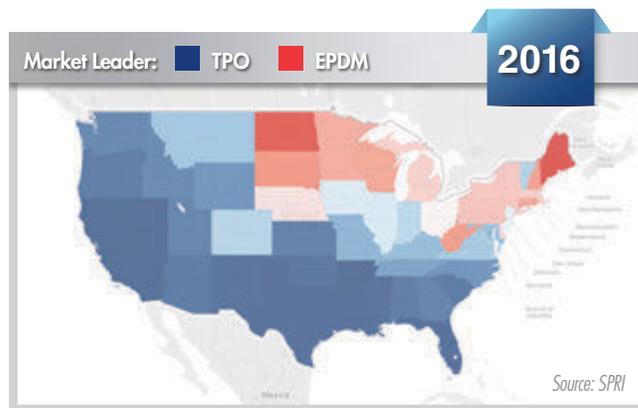
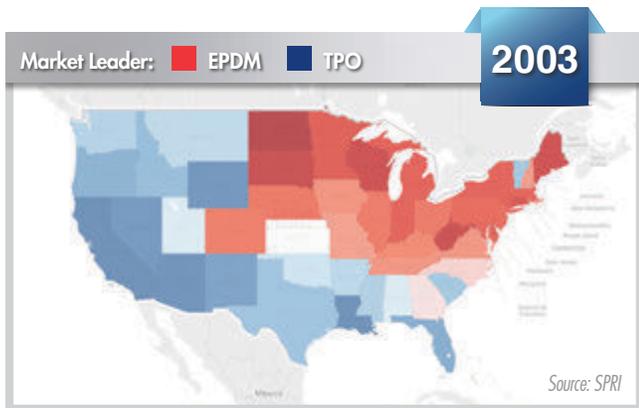
TPO VS. EPDM

A 3D architectural rendering of a multi-story building. The building is split vertically down the middle by a diagonal line. The left side of the building is light gray and shows a white, stepped roof structure. The right side is dark gray and shows a dark, flat roof. The building has several windows and balconies.

FIVE
WAYS
EVERGUARD
TPO
BEATS
EPDM

TPO systems have grown from a tiny share of the single-ply roofing market to the #1 choice, making up more than 50% of the single-ply market. This durable, cost-effective roofing solution is growing in popularity throughout the country, including Northern climates.

When you choose TPO, you get more than a reliable membrane. You get the peace of mind that comes from knowing the #1 choice of commercial roofing professionals is protecting your valuable assets.



- Looking for a durable, reliable, energy-efficient low-slope roof?
- Torn between EPDM and rising industry favorite TPO?

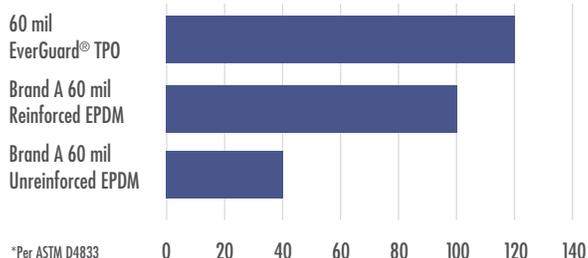
HERE ARE FIVE GREAT REASONS TO CHOOSE TPO:

1

PUNCTURE RESISTANCE

Punctures often equal leaks. EverGuard® TPO offers greater puncture resistance than reinforced EPDM, and up to three times the puncture resistance of non-reinforced EPDM of the same thickness.

Puncture Resistance* (lbf)



2

DIMENSIONAL STABILITY

TPO has better dimensional stability than EPDM. EPDM is more likely to shrink which can cause a variety of problems on your roof.



3



ENERGY EFFICIENCY

Reflective TPO can help save money on energy costs* compared to dark EPDM in buildings that use natural gas heat and electric air conditioning. This is true in the sun belt as well as the snow belt, thanks to the simple fact that the color of the roof only matters in sunlight. Since summer days are longer than winter days, the summer sun has a much greater opportunity to impact energy costs. Add to that the fact that, on average, electricity costs 4 times more, per BTU, than natural gas. That doesn't even include electricity demand charges, which can account for up to 30–70% of a total electricity bill.

And finally, a snow-covered EPDM roof reflects the sun's energy in the winter. Yet in the summer, the dark EPDM roof



becomes a heat absorbing sponge— just when you want to reflect sunlight away.

How much can you save on energy bills? Find out by visiting www.cool.gaf.com to try out our CREST energy calculator.



*Energy cost savings are not guaranteed and the amount of savings may vary based on climate, utility rates, roof reflectance, insulation levels, HVAC equipment efficiency, and other factors.

4



INSTALLATION CONVENIENCE

TPO is a versatile membrane and can be installed in a variety of ways, including mechanically attached, adhered, and with the RhinoBond® System.*

RhinoBond® is an electromagnetic induction welding system and cannot be used with thermoset products such as EPDM. It's a great way to achieve the look and performance of an adhered system when it's too cold to use adhesives.

GAF offers many different adhesives to install both smooth and fleece-back membranes, including low-VOC options. Install fleece-back



TPO in as low as 25°F (-3.9°C) with LRF M Low Temperature Adhesive. Visit www.gaf.com/tpoinstall for more information on TPO systems.

*RhinoBond® is a registered trademark of OMG, Inc.

5



SEAM STRENGTH

A durable roofing system depends on strong seams. EverGuard® TPO's welded seams are stronger than taped EPDM seams. By welding the seams, TPO becomes one monolithic membrane across the entire roof.



MAKE EVERGUARD® TPO YOUR FIRST CHOICE FOR:

Puncture Resistance

Dimensional Stability

Energy Efficiency

Installation Convenience

Seam Strength

GAF offers a full line of EverGuard® TPO membranes, the best-performing TPO in accelerated aging in the largest independent TPO study ever conducted. Find out more at TPOresults.com.

EverGuard® TPO

Available in 45, 60, and 80 mil. Guarantees up to 30 years.*

EverGuard Extreme® TPO

The overall best-performing TPO you can buy for your property, offering the longest TPO warranty available in the industry (up to 35 years)*. Available in a variety of thicknesses and can fit most budgets.

EverGuard Extreme® & EverGuard® TPO Fleece-Back Membrane

No slip sheet required when re-covering over a variety of roofs. Provides enhanced puncture resistance, especially in areas more prone to hail.

EverGuard® Freedom™ TPO

Self-adhered TPO, available with both heat-weldable seams and with Rapid Seam™ Technology. Warranties available up to 20 years.*

EverGuard® TPO Colors

Transform your traditional roof with more than 20 available colors, including reflective Energy Gray and Energy Tan.

*See applicable warranty or guarantee for complete coverage and restrictions.

