

The JM TPO Advantage

The JM TPO Advantage is now stronger than ever! Contractors, specifiers, and consultants played an important part in the design and engineering of JM TPO and the results speak for themselves. As we developed specifications for production, we evaluated and optimized the formulation to deliver results most important to our valuable customers specifying, using, and counting on JM TPO to deliver.

Through the rigor of six sigma design analysis, we identified key criteria that contractors, specifiers, and consultants ranked as most important: thickness over scrim, ozone resistance, reflectivity, consistent thickness across the sheet, variety of product offerings, maintenance of product properties after heat aging and overall weather resistance. JM TPO clearly has the advantage over other products on the market!

Highest Thickness-Over-Scrim in the Roofing Industry

The ASTM D 6878 minimum standard for thickness-over-scrim is 12 mils. JM target manufacturing standards are 150% of the ASTM requirement for 45 mil and an even greater percentage for 60 mil product. According to a leading roofing expert, thickness-over-scrim was identified as the most important TPO attribute for top performance.*

Exceptional Ozone Resistance

JM building scientists worked with our polymer chemists to understand and apply breakthroughs in chemistry that have allowed us to utilize the industry's best UV formulation. The JM TPO formulation was developed to maximize resistance to ozone degradation.

Solar Reflectance Index Exceeds the EPA Standard

JM TPO is ENERGY STAR® compliant with an SRI of 101 that exceeds the EPA standard. Some manufacturers offer TPO products that do not even meet this criteria. A high SRI also means additional cost savings for the owner. And, one more selling advantage for you as more and more building projects demand the most energy-efficient products on the market.

Thickness Tolerances Have Over 50% Less Deviation than Other Major Brands

JM measured 10' wide sheets from other brands at 105 data points across the width of the membranes. JM results indicated that our standard deviation is an average of half of the deviation found in the closest of two leading TPO membranes. Consistent thickness means consistent properties that assure excellent weathering, workability and an aesthetically pleasing appearance. Our tight tolerances are especially crucial to maintain the integrity of the encapsulated edge thickness.

Seam Strength 50% Higher Over a Wider Temperature Range

JM has successfully maximized the melt window of the membrane, assuring you a solid weld with the greatest flexibility in varying field conditions. With a seam strength averaging 50% higher than the market average over a temperature range of 775°F to 1,000°F, JM TPO can reduce cold welds and increase productivity. Better productivity equals a competitive advantage. Think of JM TPO as the best in class of wide "weld-window" TPOs.

Highly Engineered for Tear Strength and Uplift Resistance

JM TPO is strong and flexible helped by the scrim orientation and thickness of our polyester reinforcement. Our membranes have superior strength with a machine tear strength of 90 lbf, 5% greater than other TPOs reported at 86lbf. Many competitor's use 1,000 x 1,000 denier (thickness of threads) reinforcement for 10' wide sheets. The JM TPO reinforcement for 10' wide sheets is JM reinforcements are significantly higher at 1,300 x 1,300 denier. This has resulted in a multitude of benefits for JM TPO including puncture testing results which are 27% higher than another leading brand. Most importantly, the reinforcement allows for efficient load transfer in mechanically fastened systems and installing a membrane more resistant to damage equals fewer callbacks.





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Top Performance with 17% Higher Elongation

A higher elongation of 35% in the machine direction, versus a leading competitor's at 30%, ensures a greater accommodation for deck movement. Most importantly, JM TPO membrane has superior cold temperature mechanical properties.

A Great Variety of Product Offerings

The JM TPO product line has great breadth, giving contractors and owners many design and installation options. And, JM is the only manufacturer to have a peel and stick walkpad product as well as a 4' detail membrane. We are continually on the move with new innovations, so look soon for a new array in color choices.

Outstanding Climate Resistance as Measured by the Xenon Weatherometer

The ASTM test minimum standard is simulated exposure at 10,080 kJ/m². JM has maintained performance now to 19,800 kJ/m² and continues to accumulate exposure well past the ASTM requirements. Compare this to another brand with performance requirements of only 17,000 kJ/m². Additionally, JM TPO shows remarkable retention of physical properties after heat aging.

Nationwide and Extensive Technical Service Support

Our Technical Services will assist with details and how to adapt JM TPO to the accessories products you may be familiar with from other brands, making it much easier for you to try the JM product.

JM has a Bright Financial Future Even in these Economically Uncertain Times

JM is owned by Berkshire Hathaway, a company with the highest level of leadership from Warren Buffett. You can be assured that JM will have the financial stability to honor guarantees over a long time horizon. Other manufacturers may not be so confident. We are a 150+ year-old company with a track record that you can trust now and in the future.

***Most Important TPO Quality – The Remarkable Growth of Thermoplastic Polyolefin (TPO) Roofing Systems”
Roofing News January 2007*