

Total Support

We're here for you. GenFlex offers the most comprehensive classroom and hands-on training programs in the industry to help ensure efficient, quality roofing installations. We can provide training anywhere, any time. Our team is equipped with knowledge and expertise to train you effectively. In addition, an extensive library of videos is available on our website.

The GenFlex Winner's Circle™ program is the only initiative of its kind in the industry, rewarding both contractors and distributors for their loyalty to quality GenFlex systems. In addition, our Q3 Contractor programs enable us to identify approved contractors committed to ongoing training, plus excellence in workmanship and service.

Learn more at www.GenFlex.com

Visit us online for the latest information on our products, system specifications, technical information, detail drawings, MSDS and product data sheets, plus details on GenFlex training programs. You can also order GenFlex samples and literature.

Warranties and Code Requirements

A full array of warranties, including full system coverage of membrane, insulation and accessories, is available. Warranted installations are inspected by GenFlex Technical Representatives, ensuring that the roofing system meets all warranty requirements.

GenFlex has systems that have achieved Underwriters Laboratories (UL) classifications and Factory Mutual (FM) approvals. GenFlex systems are also listed by International Code Council (ICC) and Miami Dade County. Refer to the appropriate agency publication for other listings, or contact the GenFlex Roofing Systems technical department.



GenFlex® TPO

Single-Ply Roofing Systems



*Single-Ply Solutions for
Over a Quarter Century™*

CB04

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PROVEN QUALITY



GenFlex TPO for High Performance

You can feel confident with GenFlex. Here's why. GenFlex TPO roofing systems are designed for durability and to help withstand extreme environmental exposure. So you can be certain you have the right solution for your project – no matter what the configuration, usage, slope, height, location or wind exposure.

Even better, GenFlex offers the widest selection of products and systems, including GenFlex Peel & Stick™ TPO. Introduced in 2003, these revolutionary membranes and accessories have pre-applied adhesive and tape, making installation faster, easier, safer and smarter.

GenFlex TPO membrane also meets all the requirements of the TPO ASTM Standard D6878-03.

Features and Benefits

Polyester Reinforcement

- ▶ Excellent dimensional stability
- ▶ Greater tear and breaking strength
- ▶ Outstanding lay-flat qualities for easier seaming

Heat-Weldable

- ▶ Higher seam strength
- ▶ Less seaming labor
- ▶ VOC free
- ▶ Lower labor costs
- ▶ Wide welding window

Advanced Compound and UV Technology

- ▶ Proven long-term performance
- ▶ Non-halogenated compound
- ▶ Excellent long-term flexibility and welding characteristics
- ▶ Free of plasticizers
- ▶ Scuff resistant
- ▶ Increased puncture resistance

Good, honest roofing materials at reasonable prices.

It's common sense. We deliver value. Our proven, durable roofing systems and components are designed to give you a high-quality product, easier installations and complete warranty coverage.

For nearly 30 years, we've been leading the way with a full line of high-quality roofing products. And it's our commitment – to give you what you need – that has kept us at the forefront of new roofing products and technologies.

For instance, GenFlex produced the industry's first 12-foot-wide sheet meeting industry code requirements, which means fewer seams, fewer panels, faster installation and lower costs for you. At GenFlex, we like to lead the way. Stick with us, and you will, too.





GenFlex TPO

TPO offers the flexibility and weathering resistance of rubber, plus the versatility of a thermoplastic. The seams may be either heat-welded or sealed with seam tape.

- ▶ **Installation methods:** Mechanically attached, fully adhered and ballasted
- ▶ **Thickness:** 45 mil (1.14 mm) and 60 mil (1.52 mm)
- ▶ **Standard widths:** Range from 4' – 12.33' (1.22 m – 3.76 m) depending on color
- ▶ **Standard length:** 100' (30.5 m)
- ▶ **Colors:** White, Grey and Tan
White TPO meets EPA and DOE Energy Star requirements.

GenFlex TPO Peel & Stick™

GenFlex TPO Peel & Stick – with heat-weld (HW) seams or high-performance seam adhesive (SA) edge to edge – helps reduce labor and installation time.

- ▶ **Thickness:** 45 mil (1.14 mm) and 60 mil (1.52 mm)
- ▶ **Standard widths:** White HW – 6.25' (1.91 m) and 10' (3 m)
White SA – 37 1/2" (952.5 mm) and 6.25' (1.91 m)
- ▶ **Standard lengths:** 45 mil SA – 50' (15.2 m) and 100' (30.5 m)
All other products – 100' (30.5 m)

GenFlex TPO Plus

TPO Plus is designed to provide greater puncture resistance, breaking strength and long-term performance.

- ▶ **Installation methods:** Mechanically attached, fully adhered and ballasted
- ▶ **Thickness:** 72 mil (1.83 mm) and 80 mil (2.03 mm) White
- ▶ **Standard widths:** 4' (1.22 m) and 8' (2.43 m)
- ▶ **Standard length:** 75' (22.9 m)

Now, this is cool.

We all know reflective roofing materials are proven to keep solar heat out of buildings. And that increases energy savings. But did you know that in certain geographic regions, our Cool Roof systems stay 50° – 60°F cooler at peak times than traditional roofing membranes? It's our way of protecting the environment, lowering cooling costs and keeping owners and occupants smiling.

As if that weren't enough, we're also a partner in the EPA Energy Star® program. Not only do our GenFlex White TPO products meet EPA requirements, they also meet stringent reflectance and emittance criteria in the LEED® program.



TPO ACCESSORIES

Peel & Stick accessories simplify applications and make them quicker. Thousands of jobs have been seamed, sealed and detailed with Peel & Stick accessories.

Peel & Stick™ TPO Flashing Membrane

- ▶ Pre-applied pressure-sensitive adhesive
- ▶ Pre-cut flashing sizes for less set-up time
- ▶ 18 3/4" width (476 mm) x 100' length (30.5 m)

Peel & Stick™ Seam Tape

- ▶ Two-sided, cured butyl seam tape (White)
- ▶ One-step clean-and-prime application with scrub pad and handle
- ▶ Excellent adhesion to TPO membranes
- ▶ 3" width (76.2 mm) x 100' length (30.5 m) rolls

Peel & Stick™ Pipe Boots

- ▶ Injection-molded TPO boot with pre-applied butyl tape
- ▶ Fast and easy installation with GenFlex clear primer
- ▶ Fits openings from 1" – 6" (25.4 mm – 152.4 mm)

Peel & Stick™ Cover Tape

- ▶ 5" (127 mm) wide TPO membrane flashing with pre-applied butyl tape
- ▶ Fast and easy way to strip in metal edge
- ▶ Can also be used to patch holes or punctures in membrane

Scrub Pad and Handle

- ▶ Designed to apply clear primer to TPO membranes in one-step process
- ▶ Required application tools for GenFlex clear primer
- ▶ Abrasive pads and molded plastic handles

Clear Primer

- ▶ Promotes excellent adhesion to TPO
- ▶ Clear color improves aesthetics
- ▶ For use with all Peel & Stick TPO accessories
- ▶ Convenient 3 gal. (11.4 L) pail

Fasteners and Accessories

No roofing system is complete without fasteners. That's why GenFlex offers a complete line of fasteners and installation accessories to make sure your roofing system isn't missing a thing. For specific application needs, see the product data sheets at www.GenFlex.com.



OPTIONS FOR INSTALLATION

Perfect for new construction or reroofing jobs, GenFlex TPO membranes can be mechanically attached, fully adhered or ballasted.

Mechanically Attached



Mechanically attached systems offer exceptional performance in high wind conditions at a very low installed cost. The complete line of fastening accessories assures the right attachment for the right condition.

Mechanically Attached Dual-Weld



Dual-Weld offers even higher wind-uplift performance than single-weld seams, which create unequal, or asymmetrical, loading in the attachment area. GenFlex's patented Dual-Weld technology balances the wind load throughout the seam area, eliminating the stress around the fasteners and along the seams. By directly transferring the load to the in-seam fastening system, performance and uplift ratings improve.

Fully Adhered



Fully adhered systems are ideal for roofs with unusual or odd-shaped contours, where mechanical penetration of the membrane is not desirable, yet exceptional wind performance is needed. The back of the membrane and the substrate are coated with GenFlex bonding adhesive, allowed to dry, carefully rolled back into position and broomed into place.

Ballasted



Ballasted installation is perfect when a job needs to be done fast and inexpensively. Insulation and membrane are loose-laid with the membrane fastened only at the perimeter. Recommended ballast is smooth, water-worn rocks. Substrate must be capable of supporting the dead load of the system.

GENFLEX TPO TEST DATA

Property	ASTM Test Method	ASTM Minimum	Typical Values
Color (Face)			White, Grey, Tan
Weight: lbs/ft ² (kg/m ²) 45 mil 60 mil	D751		0.21 (1.03) 0.29 (1.41)
Nominal Membrane Thickness: inches (mm) 45 mil 60 mil	D751	.039 (1.00) .054 (1.32)	.045 (1.14) .060 (1.52)
Thickness Over Scrim: inches (mm) 45 mil 60 mil	D6878 Annex A1	.012 (.305) .012 (.305)	.015 (.38) .021 (.53)
Breaking Strength: lbf (N) 45 mil & 60 mil	D751	220 (976)	330 (1500)
Elongation at Reinforcement Break: min %	D751	15	30
Tear Strength: lbf (N)	D751	55 (245)	156 (694)
Accelerated Weathering	G151 & G155	Pass	Pass
Brittleness Point: °F (°C)	D2137	-40 (-40)	-49 (-45)
Ozone Resistance: No Cracks	D1149	Pass	Pass
Linear Dimensional Change: max %	D1204	±1	-.01
Water Absorption: max mass %	D471	±3.0	+1.2
Water Vapor Permanence: Perm	E96	n/a	.0122
Puncture Resistance: lb (kg) 45 mil & 60 mil	FTM 101C D5602	n/a n/a	33 (15) 112 (50)
Factory Seam Strength: lbf (N)	D751	66 (290)	75 (330)
Properties After Heat Aging (Retained Values)			
Breaking Strength: lbf	D751	90	90
Elongation at Reinforcement Break: min %	D751	90	90
Tearing Strength: lbf (kN)	D751	60	90
Weight Change (mass): max %	D751	±1	-.01
Weather Resistance (retained values)	G155	Pass	Pass
LEED® Information			
Reflectivity	E903, C1549		White 77% Grey 47% Tan -
Emittance	E408, E1371		.87 (all colors)
Solar Reflectance Index	D1980-1		White 95 Grey 53 Tan 78
Recycled Content Post Consumer Post Industrial			0% 3% - 5%
Manufacturing Location	Tuscumbia, Alabama		