

# TPO vs EPDM vs PVC: Which Single-Ply Roof Wins for GTA Commercial Buildings in 2026

*Quick reference guide by Industrial Roofing Services Limited*

## TPO

Thermoplastic polyolefin. White, hot-air welded. \$11-16 per sq ft installed, 60 mil. 20-30 year service life. Best general-purpose membrane for GTA warehouses.

## EPDM

Synthetic rubber. Black (usually). Tape-and-primer seams. \$10-15 per sq ft installed, 60 mil. 30-40 year service life. Best for long-hold owners, simple roofs, no rooftop equipment.

## PVC

Thermoplastic membrane. Hot-air welded. \$14-20 per sq ft installed. 25-35 year service life. Required for grease, chemical exhaust, and rooftop solar applications.

## Wind uplift

All three pass FM Global wind testing in the GTA. Mechanically attached for TPO and PVC. Ballasted EPDM rarely allowed on newer decks.

## Energy performance

White TPO and PVC reflect 75-85% solar. Black EPDM reflects under 10%. Cooling savings pay back the white-membrane premium in 8-12 years.

## Chemical resistance

PVC is the only choice near grease vents, kitchen exhausts, or industrial chemical stacks. TPO and EPDM degrade with prolonged grease contact.

## Welding vs taping

Hot-air welds (TPO, PVC) are stronger than the membrane and probe-testable. EPDM tape seams need careful prep and are the most common 30-year failure point.

## Decision matrix

Standard warehouse: TPO. Long-hold simple roof: EPDM. Grease/chemical/solar: PVC. Cold storage: TPO or PVC fully adhered.

## **Toronto Green Standard**

White TPO and white PVC meet TGS solar reflectance index. Black EPDM does not.

## **Install quality**

Membrane choice matters less than install. Look for certified foreman, probe-tested seams, engineered fastening, detailed flashings.

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