



Converting
Company

3M(TM) Thinsulate(TM) Acoustic Insulation for Special Vehicle Production

Short product guide for professional outfitters: campers and vans, minibuses and buses, ambulances and special-purpose vehicles.

Quiet cabin

Thermal comfort

Low weight

Moisture resistant

Converted by EKO-TECH

Products covered: TC3403, AU3004-6, SM300L, SM600L

Technical values based on 3M product data. Prepared as sales support material.

The four materials belong to the same lightweight, fiber-based Thinsulate acoustic insulation family. They differ mainly by thickness, surface weight and scrim design - this is what decides where each grade fits best in production.

SM300L

proven 20 mm class

Proven trim solution.

21 mm

357 g/m²

single black scrim

16.2 kg/m³

Best for: doors, pillars, headliners, trim panels

AU3004-6

optimized 20 mm class

Updated 20 mm-class material.

19 mm

340 g/m²

single black scrim

38% recycled PET

Best for: SM300L replacement in 20 mm cavities

SM600L

proven 40 mm class

Maximum loft and fiber mass.

42 mm

672 g/m²

single black scrim

15.3 kg/m³

Best for: large roof, wall and cargo cavities

TC3403

low-density 40 mm class

Low-density mass reduction.

41 mm

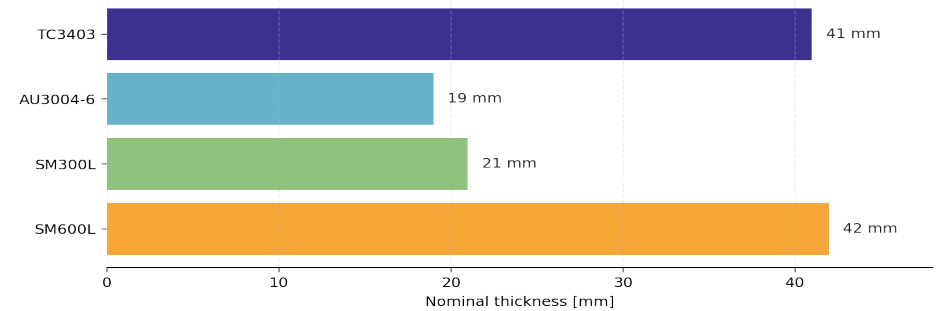
332 g/m²

dual white scrim

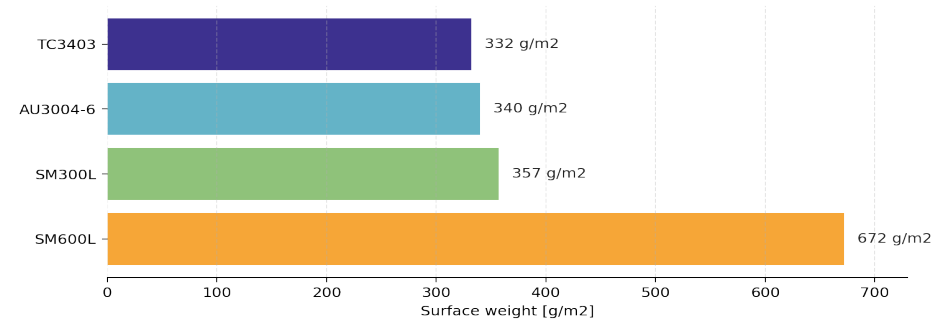
7.7 kg/m³

Best for: large irregular cavities; low-weight builds

Thickness decides thermal buffer and cavity fill.



Surface weight shows the mass-performance trade-off.



Common benefits: sound absorption | thermal comfort | lightweight compressible fibers | moisture resistance | self-extinguishing | 120 deg C guidance

Where to use which material

Choose by available cavity depth, target NVH level, weight target and assembly method. All materials can be supplied in converted formats ready for production.

Vehicle area / need	Best material choice	Why it works
Roof and large side cavities	SM600L or TC3403	40 mm-class loft improves acoustic fill and thermal comfort. Use SM600L for maximum absorption; TC3403 for low weight.
Doors, pillars, trim panels	AU3004-6 or SM300L	20 mm-class thickness fits shallower spaces and is easy to laminate, cut and mount.
Luggage / cargo areas, wheel arches	SM600L or TC3403; AU/SM300L where space is limited	Higher loft helps reduce road and tyre noise. Use thinner grades where trim clearance is tight.
Ambulances and emergency vehicles	SM600L / TC3403 in large cavities; AU3004-6 / SM300L behind panels	Improves speech comfort, reduces panel resonance and supports clean production assembly.
Special cars, service vehicles, mobile units	Mix by area: 40 mm class for large panels, 20 mm class for modular interiors	Reliable way to balance noise reduction, thermal buffer, weight and installation time.



Rule of thumb:
Use 20 mm class in shallow trim and 40 mm class in large roof, wall and luggage-space cavities.

Production note: avoid continuous crushing in floors or load-bearing areas unless the design preserves enough loft. Ask EKO-TECH for converted laminated parts and trial samples.

How to interchange without noticeable quality

AU3004-6 <-> SM300L

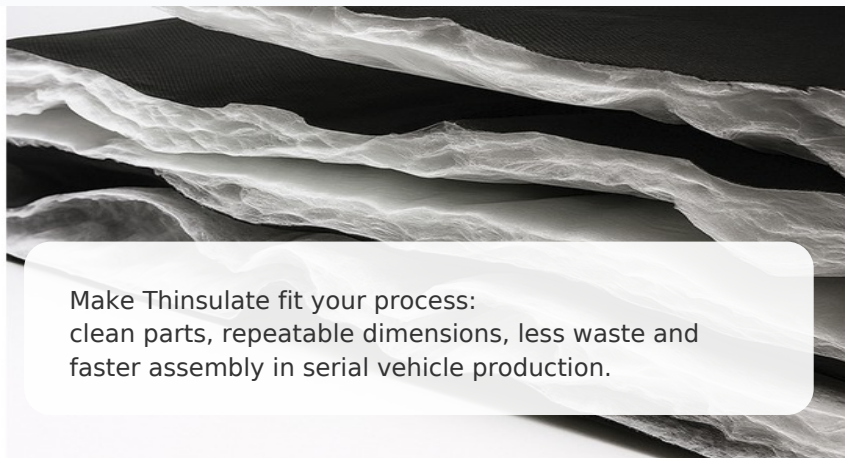
The closest replacement pair. Similar thickness, surface weight and single black scrim. Use one-to-one in 20 mm-class trim, door and pillar applications.

TC3403 <-> SM600L

Same 40 mm-class loft, different philosophy. TC3403 saves weight; SM600L provides maximum fiber mass. Both can create a premium result in van walls and roofs.

Cross-class changes

Use with a design check. Replacing 40 mm by 20 mm saves space but reduces loft; replacing 20 mm by 40 mm requires enough cavity depth or controlled compression.



Make Thinsulate fit your process:
clean parts, repeatable dimensions, less waste and faster assembly in serial vehicle production.

What EKO-TECH adds

We convert Thinsulate rolls into production-ready formats - from samples to repeatable series parts.

1

Cutting to sheets

Roll material converted to sheets or kits matched to your vehicle platform and assembly sequence.

2

Adhesive laminating

Adhesive-backed insulation parts for faster mounting on metal, plastic or trim panels.

3

Special shapes

Die-cut and kiss-cut parts with contours, openings and positioning features for repeatable assembly.

4

Reel slitting

Narrow rolls and widths prepared for manual workstations or automated production feeding.

EKO-TECH production benefits: technical material selection - adhesive matching - prototypes - serial converting - consistent quality - efficient logistics

Fast product selector

Need...	Start with...
Maximum acoustic/thermal comfort in large cavities	SM600L
40 mm loft with major weight saving	TC3403
20 mm-class newer solution with recycled PET content	AU3004-6
Proven 20 mm-class insulation for trim and panels	SM300L



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Ask for samples or a quote

Send us your drawing, target size or installation area. We will recommend the right Thinsulate grade and convert it into production-ready parts.

Contact EKO-TECH