



AUTOPLY™

AUTOMOTIVE INSULATION KITS



DiamondPly™ 1.0 is a high-performance automotive insulation material engineered for commercial vehicle interiors, work trucks, vans, and specialty vehicle builds.

Built on the proven non-woven polyester insulation used in FiberPly™, **DiamondPly** adds a **durable polypropylene spun protective layer with a diamond pattern surface**, creating a tough interior liner that resists punctures, wear, and tearing while delivering excellent thermal and acoustic insulation performance.

INSTALLATION ADVANTAGES

- ▶ Can be installed directly to vehicle walls and ceilings
- ▶ Eliminates the need for traditional interior paneling
- ▶ Allows visibility and access to wall and ceiling structure
- ▶ Flexible material conforms easily to vehicle contours

ENVIRONMENTAL & HEALTH FEATURES

- ▶ Odorless material suitable for enclosed vehicle environments
- ▶ Chemical-free and allergen-free composition
- ▶ No fiberglass particles
- ▶ Recyclable material components
- ▶ Resistant to mildew and bacteria

COMPLIANCE & CERTIFICATION

- ▶ Meets Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302) for flammability

MATERIAL COMPOSITION

- ▶ Non-woven polyester insulation fiber core
- ▶ Polypropylene spun reinforcement layer
- ▶ Diamond pattern protective surface
- ▶ These materials are widely used by automotive OEM manufacturers and meet automotive industry durability requirements.

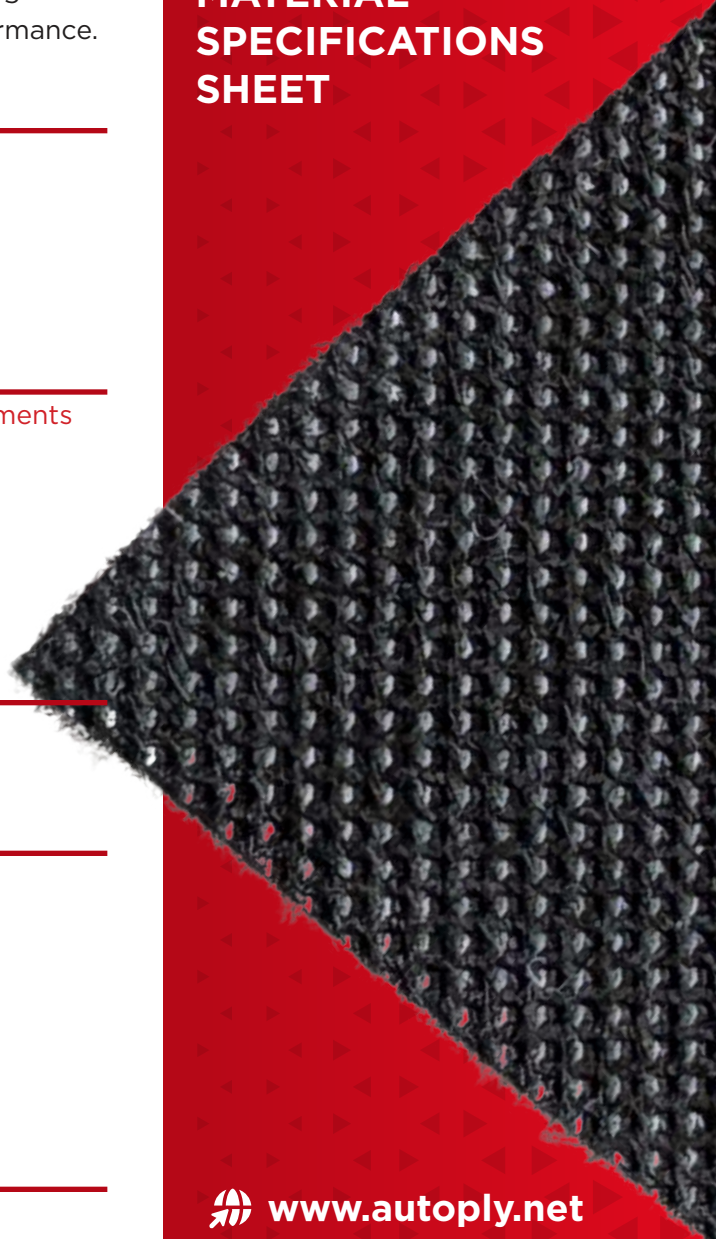
MANUFACTURING

- ▶ Manufactured in the United States
- ▶ Buy America compliant
- ▶ Materials sourced to meet automotive industry standards

DiamondPly 1.0

Durable Insulation Liner with Reinforced Protective Surface

MATERIAL SPECIFICATIONS SHEET



 www.autoply.net

 +1 (954) 799-3035

 info@autoply.net



CERTIFICATIONS

- ▶ Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302)
- ▶ Canada Motor Vehicle Safety Standards (CMVSS)

THICKNESS

- ▶ 1.0 inch (25 mm)

DENSITY

- ▶ 0.039 g/cm³
- ▶ 2.46 lbs/ft³

ADHESIVE STABILITY RANGE

- ▶ -40°F to 250°F (-40°C to 121°C)

HIGH R-VALUE TO THICKNESS RATIO

- ▶ R4: 1.0 inch (25 mm)

ADHESIVE

- ▶ Low VOC acrylic, solvent-free, with excellent bonding performance and glassine paper release liner

INSULATION MATERIAL CHARACTERISTICS

- ▶ Odorless
- ▶ Chemical and allergen free
- ▶ No fiberglass
- ▶ Recyclable
- ▶ Mildew and bacteria resistant
- ▶ Buy America compliant

CHEMICAL PRODUCT

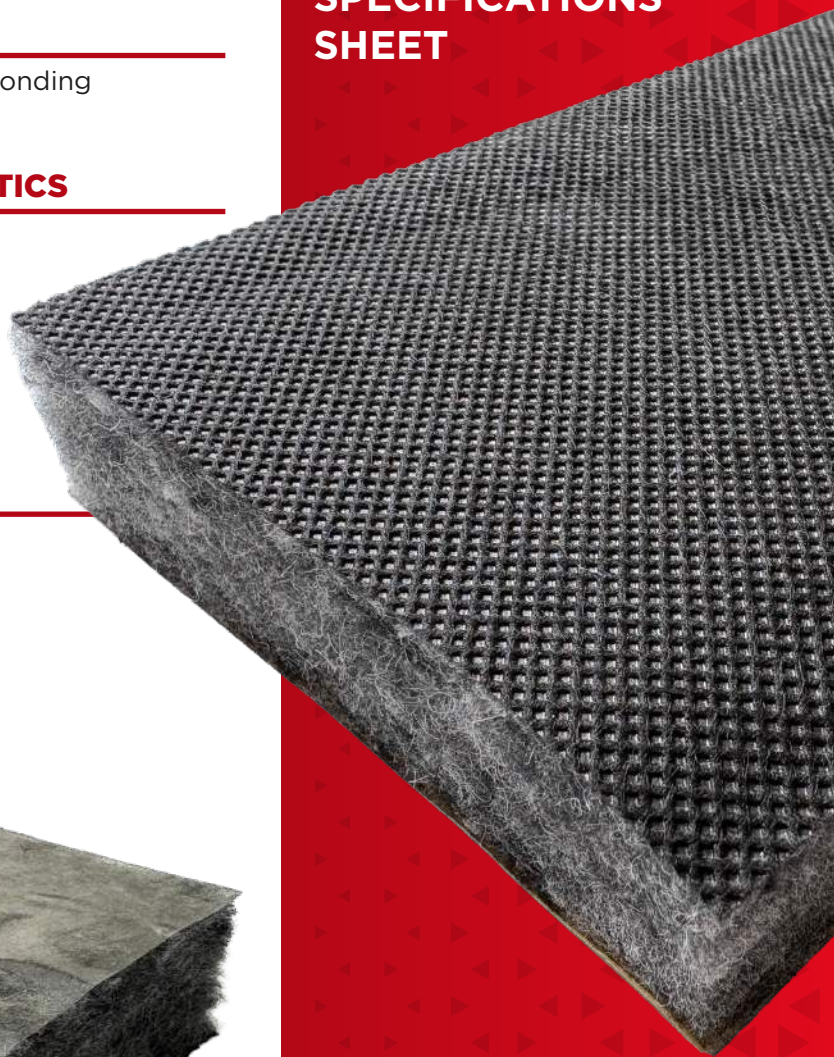
- ▶ PET/polyester copolymer staple and bicomponent fiber



DiamondPly 1.0

Durable Insulation Liner with Reinforced Protective Surface

MATERIAL SPECIFICATIONS SHEET



 www.autoply.net

 +1 (954) 799-3035

 info@autoply.net