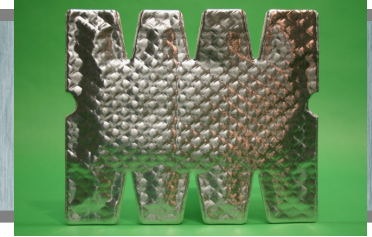


Thermal and Acoustical Systems

ZeroClearance® - PolyTack

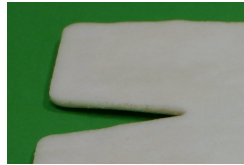
(Polyester or Polyester & Glass Core/Adhesive mounted shields designed for low surface energy applications)



ZeroClearance PolyTack shields are an advanced alternative to traditional thermal and acoustical metal shields. ZeroClearance shields are comprised of high-performance aluminum sheeting (various thicknesses available), a mechanically needle-punched fiber composite spacer, and a unique, high-temperature pressure-sensitive adhesive on the back for attachment to low surface energy composites.

Applications:

- Underbody above exhaust system
- HVAC thermal protection
- Fuel tank thermal protection
- Underhood component protection



Features and Advantages:

- Low tooling costs
- Short lead-times for production
- Approved at several major OEM's
- Ideally suited for applications where little space exists for traditional stampings
- Acoustical sound deadening benefits without the squeak and rattle issues of stampings
- Withstands 246°C (475°F) oven test for 30 hours with no failure
- Alternative adhesives available depending upon surfaces to be adhered to
- IR signature masking

Typical Properties:

| | | |
|---|--|------------------------|
| Material Type: | Polyester or Polyester & Fiberglass core material | |
| Core Thickness: | 4.0mm – ZC612 (PET & glass core) 3.2mm – ZC712 (PET core) 6.4mm – ZC725 (PET core) | |
| Foil Thickness: | 0.05mm (0.002") - (ZC612/712/725-02) (.25mm passes gravelometer) 0.25mm (0.010") - (ZC612/712/725-10) | |
| Weight: | 915-1400 g/m ² (3-4.5 oz/ft ²) | |
| Moisture Absorption: | 0.3% (Pass) | |
| Thermal Conductivity (k-Value) | 24°C: 0.036 W/m/°K 93°C: 0.043 W/m/°K | |
| Adhesion after 24hr Dwell (ZC612-10) | HDPE 25.2 N/cm | PP 23.6 N/cm |
| Tensile Strength | 161 N/cm ² (ZC612-02) 430 N/cm ² (ZC725-10) | |
| Tear Resistance | 316 N/cm (ZC612-02) 1271 N/cm (ZC725-10) | |

*All values Approximate

