## **V**Lydall

## 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

Features and Advantages:

stampings

hours with no failure

IR signature masking

Underhood component protection

Low tooling costs

Short lead-times for production

upon surfaces to be adhered to

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

Withstands 246°C (475°F) oven test for 30

Alternative adhesives available depending

## Typical Properties:

Material Type:

Core Thickness:

Foil Thickness: (.25mm passes gravelometer)

Weight:

Moisture Absorption:

Thermal Conductivity (k-Value)

**90° Peel Adhesion - 24hr Dwell** (ZC612-10) (ZC712-02)

Tensile Strength

Tear Resistance

\*All values Approximate

Polyester or Polyester & Fiberglass core material

3.2mm (0.125 inch) – (ZC712) 4.0mm (0.157 inch) – (ZC612) 6.4mm (0.250 inch) – (ZC725)

0.05mm (0.002") - (ZC612/712/725-02) 0.25mm (0.010") - (ZC612/712/725-10)

915-1400 g/m<sup>2</sup> (3-4.5 oz/ft<sup>2</sup>)

0.3% (Pass)

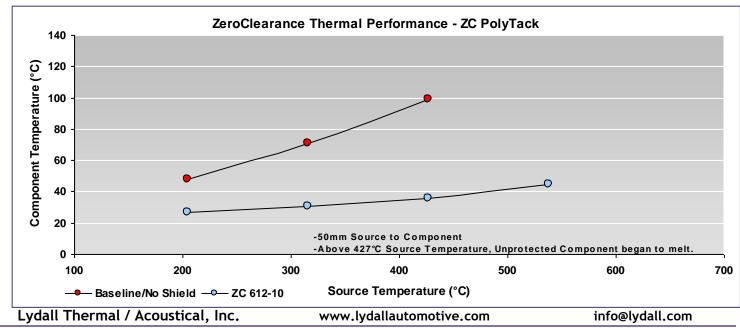
24°C: 0.036 W/m/°K 93°C: 0.043 W/m/°K

> HDPE 18.5 N/cm 12.7N/cm

PP 20.9 N/cm 12.7N/cm

161 N/cm<sup>2</sup> (ZC612-02) 430 N/cm<sup>2</sup> (ZC725-10)

316 N/cm (ZC612-02) 1271 N/cm (ZC725-10)



All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. Since industry practices vary, we make no warranty, express or implied, concerning their use, nor do we accept responsibility for any misapplications of these products, or their use under any conditions

TS16949 and ISO 14001 Certified © Copyright 2009 Lydall. All Rights Reserved Detroit Sales & Technical Center:

(248) 277-4900 (800) 260-3351 +49 (0) 23 54 709 0 +81 (3) 5288 6325

Germany Sales Office: Japan Sales Office

