

BETATECH™ 2029

Battery Adhesives

BETATECH™ 2029 is a two component thermal interface material based on a polyurethane technology with a high thermal conductivity.

BETATECH™ 2029 is based on aluminum trihydroxide fillers that lead to a high thermal conductivity of 3 W/mK accompanied by a low density of 2.1 g/ml. The material can be efficiently applied and the parts can be joined quickly due to a low press-in forces. Good adhesion on aluminum and other substrates is obtained. The material is free of silicones.

All Dupont T&I Adhesives products are primarily developed in co-operation with the automobile manufacturers, according to their needs and their specifications, they are approved for the specific applications as defined by the customer. The use of the product other than approved application have to be released in written form by the Technical Service of DuPont T&I Adhesives.

Component A

| | |
|---------|-----------------------|
| Colour | Green |
| Density | 2.1 g/cm ³ |

Component B

| | |
|---------|-----------------------|
| Colour | White |
| Density | 2.1 g/cm ³ |

Product information

| | |
|-------|--------------|
| Basis | Polyurethane |
|-------|--------------|

Application technique

| | |
|------------------------|---------------------------|
| Open time | 1 h |
| Processing temperature | 23 - 60 ^[1] °C |

[1]: Manual application from cartridges is best performed between 50 – 60 °C.

Typical mechanical properties

| | | |
|--|-----------------------|-------------|
| Lap shear strength, 7 days | ≥1 ^[2] MPa | DIN EN 1465 |
| [2]: 1 mm bondline thickness, aluminum substrates cleaned with isopropanol | | |

Thermal properties

| | | |
|----------------------|-----------|-------------|
| Thermal conductivity | 3 W/(m K) | ISO 22007-2 |
|----------------------|-----------|-------------|



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Flammability

Burning Behav. at 1.5mm nom. thickn.

V-0 class

IEC 60695-11-10

Electrical properties

Electric strength

17 kV/mm

IEC 60243-1

Storage and stability

Shelf life

6 months

Additional information

Adhesives

Press-in force at 1mm/s, 1mm layer thickness = 0.1 MPa

Mixing ratio by volume = 1:1

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