



# tesa<sup>®</sup> 58377

## Product Information

### 50µm Single-Sided Black Flame-Retardant PET Tape

#### Product Description

tesa<sup>®</sup> 58377BK is a 50µm Single-Sided Black Flame-Retardant PET Tape. It is equipped with flame retardant acrylic and a black PET backing. Its PE coated liner also ensures good convertability.

#### Product Features

- Outstanding flame retardancy performance (VTM 0) according to UL94
- Very good electrical insulation property
- Reliable adhesion strength on polar substrate
- Friendly to converting process

#### Application Fields

- Electrical insulation in Battery system with additional flame retardant property (VTM 0)
- Wrapping or encapsulation

#### Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

#### Product Construction

- |                    |                 |                      |        |
|--------------------|-----------------|----------------------|--------|
| • Backing material | PET             | • Total thickness    | 50 µm  |
| • Type of adhesive | FR acrylic      | • Thickness of liner | 140 µm |
| • Type of liner    | PE-coated paper |                      |        |

#### Properties/Performance Values

- |                                   |        |  |        |
|-----------------------------------|--------|--|--------|
| • Elongation at break             | 88 %   | • Temperature resistance long term duration  | 70 °C  |
| • Dielectric breakdown voltage    | 4500 V | • Temperature resistance short term duration | 125 °C |
| • Static shear resistance at 23°C | good   |  |        |

#### Adhesion to Values

- |                             |          |                        |          |
|-----------------------------|----------|------------------------|----------|
| • Aluminium (initial)       | 5 N/cm   | • ASTM (initial)       | 6 N/cm   |
| • Aluminium (after 14 days) | 6.2 N/cm | • ASTM (after 14 days) | 6.8 N/cm |



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### Disclaimer

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