

Material DataSheet - Carbonflect heat shield - 3mm

Manufacturer / Supplier

Motex Solutions
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Construction

Layer 1 Aluminium foil 20 g/m²
Layer 2 Adhesive 20 g/m²
Layer 3 E-glass fibre fabric 200 g/m²
Layer 4 Adhesive 80 g/m²
Layer 5 Carbon SCV 505 fleece 250 g/m²
Total: 570 g/m²

Layer 1) Aluminium foil

Weight: 20 g/m² ± 10% DIN EN 12127
Thickness: 12 µm
Temperature Resistance: 630°C (softening)

Layer 2) Adhesive

high temperature adhesive on polyurethane base
Weight: 20 g/m² ± 10% DIN EN 12127
Temperature Resistance: 250°C (long-term)

Layer 3) E-glass fibre fabric

Weight: 200 g/m² ± 10% DIN EN 12127
Temperature Resistance: 550°C
Yarn – Warp: EC9 - 68 tex – 17x ± 10% DIN 53830-3,
Yarn – Weft: EC9 - 68 tex – 12x ± 10% DIN EN 1049-2
Tensile Strength – Warp: > 2.500 N/5 cm DIN 53857
Tensile Strength – Weft: > 2.000 N/5 cm DIN 53857
Weave: Plain

Layer 4) Adhesive

high temperature adhesive on acrylic base
Weight: 80 g/m² ± 10% DIN EN 12127
Temperature Resistance: 250°C (long-term)

Layer 5) Carbon fleece

Fleece made of carbon (PanOx) SCV 505 fibres
Weight: 250 g/m² ± 10% DIN EN 12127
Thickness: 2,50 mm ± 10% DIN 9073 / ISO 5084
Temperature Resistance: 200°C (short-term) // 250°C (long-term) 1000°C // short peak temperatures.
Flammability: The fleece is not flammable. At temperatures above 300 ° C the fiber decomposes to CO₂.

* Dry storage, keep away from direct sunlight, temperatures between +5°C up to +30°C



The information given in this document corresponds to our knowledge relative to the product at the mentioned date. It is given in good faith. Furthermore users attention is drawn to the possible risks when the product is used for other purposes than the one for which it was designed. In no cases it exempts the user from knowing and applying the text's regulations to his activities. He will take sole responsibility for precautions regarding the way he uses the product. As of: June 2015