

## ELECTRA EV Blue 5.0

A fundamentally new generation of extra light damping materials using new type of mastic ( AeroShpereReinforced ), why combines different properties:

- high damping efficiency ( 0.35...0.8 respectively for thicknesses 2.5...9.0 )
- low density ( 0.75... 0.9 g/cm<sup>3</sup> respectively for thicknesses 2.5...9.0 )
- high adhesion ( > 9.5...10.5 N/cm respectively for thicknesses 2.5...9.0)
- extremely wide temperature operating range ( -40C...+60C )
- has absolutely no smell of bitumen
- does not dirty hands during installation

- extremely wide frequency range by MLF ( 40....20,000Hz )

All materials use semi-annealed semi-hard foil 100mK<sub>m</sub> with a new type of printing that does not wear off when rolled

The materials are specifically developed for use in EV cars, for whom additional weight is an important factor

Application roof, doors, trunk, trunk lid, ... without second insulation layer.

EV9.0 model has a sandwich structure with an added noise insulation heavy membrane for use on the floor and wheel arches. But even this material is lighter than water.



## MATERIAL DATA SHEET

| Name of index                                                                                 | Value               | Testing method |
|-----------------------------------------------------------------------------------------------|---------------------|----------------|
| Density (kG/m <sup>3</sup> )                                                                  | 0.75                |                |
| Foil (Outer) Thickness (μm)                                                                   | 100+-10%            | GOST 17073-71  |
| Mechanical Loss Factor on metal plate with thickness 1mm at temperature less than +20°C ( )   | 0.6                 | EVALUATION     |
| Fire risk, burning rate (mm/min)                                                              | Non-flammable, <100 | ISO 3795-76    |
| Durability of connection between the material and the metal surface during flaking-off (N/cm) | >9.7                | ISO 813:2010   |
| Operating Temp. Range (°C)                                                                    | -40 to +90          |                |
| Max. Temp. Intermittent (°C)                                                                  | +150                |                |
| Package weight (kg,avg)                                                                       | 8.20 +-10%          |                |
| Package volume (m <sup>3</sup> ,avg)                                                          | 0.0130 +-10%        |                |

### APPLICATION

This material should be installed on clean, dry surfaces, including on complex surfaces. (WARNING: Not to be installed on corroded metal surfaces!). First clean the surface from dirt, it is recommended to use water with neutral detergents, which do not contain organic solvents and alkali. After surface dries, degrease it with white spirit, gasoline or other solvents and allow dry completely.

Peel off the anti-adhesive paper and thoroughly press against the surface, avoiding the formation of air bubbles between the surface and the material. Roll the material with a roller, pressing it through so that

there is no air trapped between the material and the surface (use the "from the center to the edge" technique ).

It is best to apply the material in working environments with temperatures between +18 and +35°C.

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## **STORAGE**

Material should be stored inside at temperature not higher than +40°C in horizontal position on a flat surface at a distance not less than 1 m from any heating systems; avoid any wet conditions and contacts with oils and direct sun.

Do not stack the materials more than 1.2m in height.

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## **PACKING TYPE / AREA**

15sh 50x30 / 2.25 m<sup>2</sup>

IATF 16949:2016  
ISO 14001:2015

