



## TECHNICAL DATA SHEET

| CMC TYPE                                                                                                                                                                                                                                                                                            | CMC 70858                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product description</b><br>CMC 70858 is a self adhesive Kapton® film with good thermal conductivity and very good insulating properties even at high temperatures. Easy and clean pre-assembly provided by adhesive layers on both sides (also available in 0.025 mm film thickness on request). |                                                                                                                                                                                      |
| <b>Supporting Base</b>                                                                                                                                                                                                                                                                              | Kapton® MT, thermally conductive                                                                                                                                                     |
| Colour                                                                                                                                                                                                                                                                                              | brown                                                                                                                                                                                |
| Thermal conductivity in W/(m·K)                                                                                                                                                                                                                                                                     | 0.46                                                                                                                                                                                 |
| Substrate thickness in mm                                                                                                                                                                                                                                                                           | 0.050 ± 15%                                                                                                                                                                          |
| Total thickness in mm                                                                                                                                                                                                                                                                               | 0.140 ± 10%                                                                                                                                                                          |
| <b>Adhesive Properties</b>                                                                                                                                                                                                                                                                          |                                                                                                                                                                                      |
| Type of adhesive                                                                                                                                                                                                                                                                                    | acrylic (both sides)                                                                                                                                                                 |
| Adhesive strength in N/cm according to internal method PV 1006-32 (180° peel from steel)                                                                                                                                                                                                            | ≥ 2.5 (both sides)                                                                                                                                                                   |
| <b>Thermal Properties</b>                                                                                                                                                                                                                                                                           |                                                                                                                                                                                      |
| Temperature performance (max.) in °C                                                                                                                                                                                                                                                                | 180                                                                                                                                                                                  |
| Insulation class according to IEC 60085                                                                                                                                                                                                                                                             | H                                                                                                                                                                                    |
| <b>Electrical Properties</b>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                      |
| Breakdown voltage based on IEC 60243-1 in V <sub>eff.</sub>                                                                                                                                                                                                                                         | ≥ 7'000                                                                                                                                                                              |
| <b>Mechanical Properties</b>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                      |
| Tensile strength in N/cm                                                                                                                                                                                                                                                                            | ≥ 50                                                                                                                                                                                 |
| Elongation at break in %                                                                                                                                                                                                                                                                            | ≥ 20                                                                                                                                                                                 |
| <b>Other Properties</b>                                                                                                                                                                                                                                                                             | <div></div> |
| ® Registered trade mark of DuPont de Nemours                                                                                                                                                                                                                                                        |                                                                                                                                                                                      |

Storage conditions: cool and dry (15 - 25°C, &lt; 65% rel. humidity)

01/22

Quality guarantee: 12 months

The technical data represents average values subject to change without notice. It is not intended to replace users' testing.

Note on REACH: Some of our products do contain substances from the so-called candidate list. Please visit <https://en.cmc.de/page/reach> and check whether or not a purchased product is listed in our REACH statement and therefore does contain one or more SVHCs.