



## TECHNICAL DATA SHEET

| CMC TYPE   | CMC 77700   |
|--|---|
| <b>Properties and applications</b>   | CMC 77700 is an extremely weatherproof adhesive tape for repairing film roofs and membraneous pads made from ETFE, which does not show yellowing and which is very resistant to ageing. |
| <b>Substrate</b>   | ETFE (ethylene tetrafluoroethylene)   |
| Colour   | colourless  |
| Substrate thickness in mm  | 0.100 ± 10%   |
| Total thickness in mm  | 0.160 ± 10%   |
| <b>Adhesive properties</b>   |   |
| Type of adhesive   | polysiloxane  |
| Adhesive strength in N/cm according to internal method PV 1006-32 (180° peel from steel) | ≥ 4   |
| <b>Thermal properties</b>  |   |
| Temperature performance (max.) in °C   | 155   |
| Temperature performance (min.) in °C   | - 55  |
| Short term temperature performance in °C (ca. 1 hour)                                    | 185   |
| Insulation class according to IEC 60085  | F   |
| <b>Electrical properties</b>   |   |
| Breakdown voltage based on IEC 60243-1 in V <sub>eff.</sub>                              | ca. 3'000   |
| <b>Mechanical properties</b>   |   |
| Tensile strength in N/cm   | ≥ 50  |
| Elongation at break in %   | ≥ 300   |
| <b>Other properties</b>  |                |

Storage conditions: cool and dry (15 - 25°C, < 65% rel. humidity), not in direct sunlight 10/20

Quality guarantee: 12 months

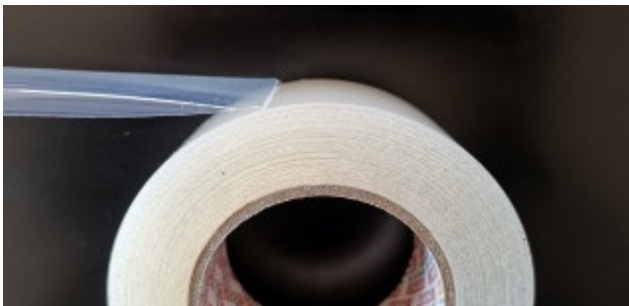
The technical data are average values and subject to change without notice. They are not intended to replace user's testing.

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.

## Notes on application of CMC 77700 (ETFE tape)

ETFE films are established - just like their relative Teflon® (PTFE) - for their repellent and self-cleaning surface characteristics. Anchorage of adhesive layers on such low energy surfaces is a challenging task.

When unwinding tape from an ETFE roll best avoid pulling with high velocities! Otherwise the adhesive layer may transfer from its own backing as seen in the picture on the right side. The angle under which unwinding is done does have a similar impact, too. A flat angle as seen in the picture on the left as well as a slow and steady pull-off will lead to the best performance in the application.



favourable unwinding angle (flat)



adverse unwinding angle or  
unwind speed too high

Processing of the tape should be done in a temperature range of 5 - 30°C.

The surfaces must be clean and dry for application purposes. A slight roughening (160 grit abrasive paper or finer) will improve anchorage of the adhesive. When applying the tape best not touch the adhesive layer - finger prints will worsen the adhesive performance.

further processing references on [www.cmc.de](http://www.cmc.de)