

# 3M™ Acrylic Foam Tape 5401

## Technical Data Sheet

### Product Description

3M™ 5401 Acrylic Foam Tape is a high performance tape made of dark grey acrylic foam. The tape is especially qualified for attaching elastomeric parts such as seals for head lamps. 5401 is characterised by its high adhesion to a variety of automobile surfaces. One side of the tape is attached to the car body through a pressure sensitive adhesive, the other side to the elastomeric part through heat-activation.

The heat-activated adhesive guarantees a durable bond especially to EPDM seals.

A good inner consistency, brilliant long-term stability as well as very good conformability to the bonded surface are characteristic attributes for 5401.

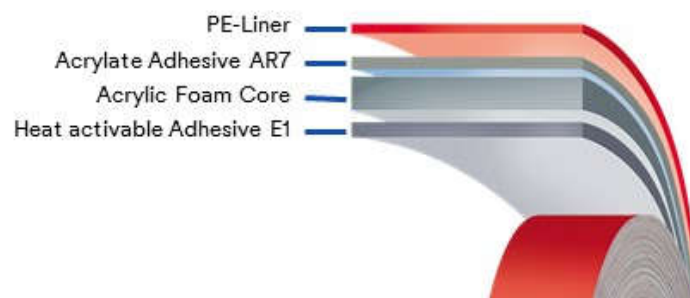
### Product Features

- Good adhesion to many automotive paints.
- Operating temperature up to 90°C.
- Optimized acrylate foam core for easy application and good adaptation to component surfaces.
- Temperature, weather, UV and solvent resistant.
- Suitable for all manual and automatic application processes.

### Advantages

- 3M™ Acrylic Foam Adhesive Tapes can compensate stress due to their unique viscoelasticity. In contrast to foam adhesive tapes (PE, PU adhesive tapes), they can cope with significant elongation differences between substrates in case of temperature changes.
- Easy to use: The tape can be easily processed in multiple ways to cut and to apply.
- Good initial adhesion: The initial adhesion allows immediate further processing often without temporary support or fixtures.
- Freedom of design: enables the easy differentiation of vehicle models through modified trim attachments without change of the body configuration.
- Sealing and damping properties: positive improvement of NVH properties.

### Product Construction



## Physical Properties

Typical Values	5401
Thickness	0.45 mm
90° Peel on 3M Reference Stainless Steel plates (Specification values have to be determined on customer substrate)	
20 min RT Liner Side (LS)	25 N/cm
72 h RT Liner Side (LS)	27 N/cm
Density	840 kg/m <sup>3</sup>
Core	3M™ Acrylic Foam Tape
Color	Gray
Liner	Orange polyethylene film.
Adhesive Liner Side (LS) and Non-Liner Side (NLS)	Non-liner side (NLS) (to rubber): E1 heat-activatable adhesive for EPDM. Liner Side (LS) (paint side): AR7 acrylate adhesive with high initial tack and high ultimate bond strength to a wide variety of clearcoat systems and substrates.
Shelf Life	<u>Film liner</u> Duration: 36 month from date of manufacturing Conditions: 4 °C - 38 °C and 0 - 95 % RH in original unopened packaging – optimum: 23 °C ± 2 °C and 50% ± 4 % RH <u>Levelwound rolls</u> to be stored horizontally.
Temperature Resistance	-40°C to +90°C, short term 120°C (both values are load-dependent).
Tabbing	3M™ Heat-bonding tabbing 5081 - 5082.
Splices	Number of splices depends on order quantity and roll length. Level-wound rolls have 3-4 splices on average. Smaller order quantities (less than 400 m <sup>2</sup> ) rolls could contain a significantly different number of splices.
Regulatory Information	Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the SDS, which is available on request or use <a href="http://www.3M.com/msds">www.3M.com/msds</a> . The product is published as material entry and is available for access on <a href="http://www.mdssystem.com">www.mdssystem.com</a> . For Product IMDS ID Number, email requests to <a href="mailto:3M-IMDSrequest@mmm.com">3M-IMDSrequest@mmm.com</a> . (In Germany use <a href="mailto:ge-produktsicherheit@mmm.com">ge-produktsicherheit@mmm.com</a> ).
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