

Technical data sheet



Product: 8069E

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: EINSEITIG

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FLEXIBLE AIR SEALING TAPE 8069E FAST-D

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Flexible Air Sealing Tape 8069E FAST-D

Product Data Sheet

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Product Description

3M™ Flexible Air Sealing Tape 8069E FAST-D is an air, moisture and water impermeable tape with an aggressive, high-tack acrylic pressure sensitive adhesive on both sides of a unique multilayer elastomeric film. FAST-D has a red polyethylene liner.

Intended Use

- Splicing, installation, joining and sealing of constructions foils, made of polyethylene, as water vapour barriers

Key Features

- Aggressive acrylic adhesive bonds to concrete, concrete block, anodized aluminium, galvanized metal, exterior gypsum and plywood without the use of any adhesion promoters.
- Multilayer Elastomeric Film backing seals around nails and staples to prevent moisture intrusion.
- Can be installed at temperatures as low as -20 °C and as warm as 50 °C
- Resists UV exposure up to 12 months

Physical Properties

	8069E FAST-D
Tape Colour	Tan
Tape Thickness (Film, Adhesive) (ASTM D-3652)	0,410 mm ± 0,015mm
Liner	0,118 mm ± 0,005 mm
Backing	Multilayer Elastomeric Film
Release Liner	Polyethylene, red
Adhesive Type	Acrylic

Performance Characteristics

Adhesion to Polished Steel 90° peel @room temp, 24 hr dwell, jaw speed 300mm/min (ASTM D-3330)	100 N/100mm
Adhesion Polyethylene 90° peel @room temp, 24 hr dwell, jaw speed 300mm/min (ASTM D-3330)	84 N/100mm
Adhesion to Aluminium 90° peel @room temp, 24 hr dwell, jaw speed 300mm/min (ASTM D-3330)	170 N/100mm
Tensile Properties Longitudinal Transverse (acc. to EN 12311-, 100 mm/min)	77 N/50 mm / 1145 % 68 N/50 mm / 1068 %
Thermal Shock Resistance -20 °C up to 60 °C Ift Richtlinie MO-01/1 (4.3)	fulfilled
Dynamic Shear Strength to different substrates (acc. to EN 12311-, 5 mm/min)	21 – 41 kPa
Light resistance and resistance to moisture penetration Ift Richtlinie MO-01/1 (4.4)	fulfilled
Water Penetration Around Nails (ASTM 1970)	Pass
Water Vapour Permeability (s_d value) (EN ISO 12572 : 2001-06) (A)	3.1 m
Application Temperature Performance	-20 °C up to 50 °C

**Building Materials
Compatibility Testing
by “ift Rosenheim”**

The following building materials have been tested on compatibility (up to 60°C) with 3M™ Flexible Air Sealing Tape 8069E FAST-D by the scientific service provider and international testing institute “ift Rosenheim” with the result of no optical or function-affecting impairments

- Concrete C35
- Exterior plaster HASIT 650 cement mortar
- Interior plaster HASIT 150
- Building plaster with Weber light mortar LM21 without primer
- Building plaster with Weber light mortar LM21 with primer
- fibreC glass fibre concrete slab 2.0
- Wood (spruce) rough, grinded / varnished / painted
- OSB panels class 3 with rough surface
- PVC-U, white
- Anodised aluminium / Powder-coated aluminium
- Vapour barrier: Ampatex DB90
- Vapour barrier: Öko Natur vapour barrier (Isozell)
- Vapour barrier: Folag Starvap D2 (PO)
- Vapour barrier: Isover Vario KM (PA)
- Vapour barrier: Siga Majpell (PE)
- Vapour barrier: D-Tack Tacolau (Alu Coating surface)

Application Handling	<p>To obtain the best adhesion, 3M™ 8069E FAST-D can be installed when outdoor temperatures range from -20 °C up to 50 °C over clean surfaces that are free from dirt and debris and have not absorbed water.</p> <p>Surfaces should be free of any damaged, unsupported areas, sharp protrusions or voids.</p> <p>Surfaces must be clear of snow, ice or frost</p> <p>Concrete must be cured a minimum of 7 days before application.</p> <p>Block or brick walls should have mortar joints stuck flush.</p>
3rd Party Evaluation	<p>3M™ Flexible Air Sealing Tape 8069E has been evaluated by SITAC (SP Technical Research Institute of Sweden) and approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR): issued by the National Board of Housing, Building and Planning.</p> <ul style="list-style-type: none">- Moisture, General- Air Tightness
UV Durability	<p>When exposed to natural sunlight in Florida and Arizona and when exposed to accelerated aging conditions, the performance of 3M™ Flexible Air Sealing Tape 8069E FAST-D remains stable over an extended period. Based on these tests and performance observed in actual installations, 3M is confident in claiming that the tape will remain fully functional up to 12 months of exposure to sunlight.</p>
Storage & Shelf Life	<p>Store at 16 °C – 25 °C and 40-65 % relative humidity in its original box. The product can be stored up to 24 months after production.</p> <p>Note: Product shall not be exposed to UV radiation during storage</p>
For Additional Information	<p>To request additional product information or to arrange for sales assistance, call.....</p> <p>Address correspondence to: 3M</p>
Important Notice	<p>All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law</p>

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our

recommendations

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