

Venting membranes

Reference: VM13

Product profile

- Self-adhesive Membrane
- Oleophobic and hydrophobic ePTFE membrane laminate
- IP rating¹ (ISO 20653): IP6K7, IP6K8²
- PFOA-free; dicyclohexyl phthalate-free
- Flammability test: Does not ignite
- Color: black
- Membrane type: 09 2800130 77
- Adhesive type: 04 296XJ16 36



Application

- Venting membrane for pressure equalization and moisture reduction

Product composition		
Membrane 09 2800130 77	e-PTFE / PA	Thickness: 150 ± 30 µm Pore size: 0.45 µm
Double-sided adhesive tape 04 296XJ16 36	PET film / Acrylic	Thickness: 160 ± 20 µm

Membrane properties	
Air flow at 70 mbars	> 250 ml/min/cm ²
Water intrusion pressure (30 s)	≥ 1 bar
Oil repellency (AATCC118)	≥ 6 (membrane side)
MVTR (g/m ² /24 H) 10 min à 80 °C	9 000

Adhesive properties	
90 ° peeling force (300 mm/min)	Stainless steel: > 25 N/25 mm ABS: > 25 N/25 mm Polypropylene: > 10 N/25 mm

Temperature resistance	
Operating temperature	-40 °C to 150 °C After 500 H at 150 °C: no reduction of functionality (air flow, water intrusion pressure), slight yellowing may occur.

Climate resistance	
(4H 80 °C and 95 % HR + 4 H -40 °C) x 5	No reduction of functionality (air flow, water intrusion pressure).

Chemical resistance	
(10 min at RT / rinse under water / dry 1 H at 50 °C) x 5 times	
Diesel, unleaded gasoline, engine oil, gearbox fluid, brake fluid, anti-freeze, windshield cleaner, glass cleaner, automobile washing	OK

¹ IP rating depends on housing design and part size
² 1.5m water immersion for 30min

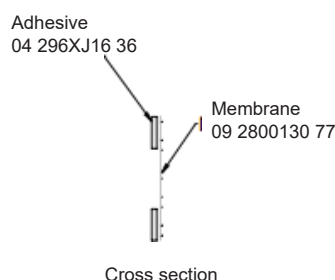
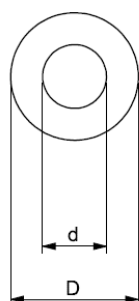
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Chemical resistance	
2 H at RT / rinse under water / dry 1H at 50 °C	
Interior cleaner	OK
22 H at RT / rinse under water / dry 1 H at 50 °C	
Ammonium containing cleaner, sweat, cosmetic products (Body cream), refreshment containing caffeine and sugar, cream-coffee whitener	OK

Standard sizes

Code	Shapes	External dimension (mm)	Internal dimension (mm)	Air flow at 70 mbars (ml/min)
		D	d	
VM13-RD01	circle	10	5.5	> 60
VM13-RD02	circle	12.7	7.1	> 97
VM13-RD03	circle	19.05	8.9	> 155



Instructions for use

The surface to be glued should be clean and dry, free from grease, silicone or dust.

At the time of application, the adhesive tape as well as the surface to which it is to be adhered, should be at temperature between 18 °C and 30 °C.

The adhesive should be applied with a pressure of 0,05 MPa for 2 seconds. A dwell period of 24 hours is then needed to reach the optimum bond or before carrying out any tests.

Storage

Store in dry conditions between 10 °C and 35 °C in its original packaging. Use within 12 months after delivery.

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