



Technical Data Sheet

DOWSIL™ Membrane Outside 0.6

High performance EPDM membrane for use as water vapor control layer according to EN 13984

Features & Benefits

- Water vapor diffusion open due to its micro-perforation
- Very good mechanical properties
- Flexible and tear resistant
- Excellent movement capability, thus able to sustain thermal and structural movements of the building
- Resistant to UV light, temperature extremes, chemical pollutants, and moisture
- Available in different widths to enable quick and easy installation
- High quality due to use of EPDM raw materials from Dow

Composition

- EPDM rubber

Applications

Outdoor¹:

- Window installation
- Ventilated facades
- Curtain wall installation

¹If an internal and external membrane is required both membranes should at least have the same water vapor diffusion equivalent air layer thickness (sd value), ideally the inner membrane shall have a higher sd value, e.g. DOWSIL™ Membrane Dual to facilitate drying out of entrapped moisture.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test	Property	Unit	Result
	Appearance		Opaque, black, flexible membrane
EN ¹ 1848-2	Dimensions		
EN 1849-2	Thickness	mm	0.6
	Length	m	25
	Width	mm	100, 150, 200, 250, 300, 350, 1400
	Straightness		Passed
	Water vapor resistance		15,000

1. EN: European Norm

Typical Properties (Cont.)

Test	Property	Unit	Result
EN 13501-1	Fire resistance		Class E
EN 12311-2	Tensile strength	MPa	≥ 2
EN 12311-2	Elongation at break	%	≥ 150
EN 1849-2 / ISO 2781	Density	g/cm ³	1.38
ISO ² 7619	Shore A Hardness		68
EN 13984	Nail tear strength	N	≥ 15

2. ISO: International Standardization Organization

Description

DOWSIL™ Membrane Outside 0.6 is an EPDM membrane available in a wide choice of widths that is bonded to substrates using DOWSIL™ Adhesive 300.

DOWSIL™ Membrane Outside 0.6 provides weather and airtight seal for fenestration application and can also be used to seal across adjacent building elements. Due to its micro-perforation the membrane is water vapor diffusion open.

Technical Specifications and Standards

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC regulations	A+	Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM Edilizia	Pass	Decree 11 January 2017 (GU n.23 del 28-1-2017)
AgBB/ABG	Pass	Anforderungen an bauliche Anlagen bezöglich des Gesundheitsschutzes (ABG), Entwurf 31.08.2017/August 2018 (AgBB)
Belgian Regulation	Pass	Royal decree of May 2014 (C-2014/24239)
EMICODE	EC1 Plus	April 2019
Indoor Air Comfort	Pass	Indoor Air Comfort 6.0 of February 2017
Indoor Air Comfort GOLD	Pass	Indoor Air Comfort GOLD 6.0 of February 2017
Blue Angel (DE-UZ 123)	Pass	DE-UZ 123 for "Low-Emission Sealants for Interior Use", (January 2019)
BREEAM International	Exemplary lvl	BREEAM International New Construction v2.0 (2016)
CDPH	Pass	
M1	Pass	
LEED v4.1	Compliant	

**Handling
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Usable Life and
Storage**

Can be stored between 5°C and 30°C for 10 years in a dry place, protected from direct sunlight.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Health and
Environmental
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

**Disposal
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**Product
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



©™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
DOWSIL™ Membrane Outside 0.6
© 2018–2023 The Dow Chemical Company. All rights reserved.