



Technical Data Sheet

DOWSIL™ Membrane Dual

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

Features & Benefits

- 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

- Indoor and 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 (s_{d} value), ideally the outer membrane shall have a lower s_{d} value, e.g. DOWSIL™ Membrane Outside 0.6 to facilitate drying out of entrapped moisture.

Typical Properties

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

Test	Property	Unit	DOWSIL™	DOWSIL™	DOWSIL™
			Membrane Dual 0.6	Membrane Dual 1.0	Membrane Dual 1.2
			Result		
	Appearance		Opaque, black, flexible membrane		
EN ¹ 1848-2	Dimensions				
EN 1849-2	Thickness	mm	0.6	1.0	1.2
	Length	m	25		
	Width	mm	100, 150, 200, 250, 300, 350, 1400		
	Straightness		Passed		
EN 1931	Water vapor resistance factor (μ -value)		100000		

1. EN: European Norm

Typical Properties (Cont.)

Test	Property	Unit	DOWSIL™	DOWSIL™	DOWSIL™
			Membrane Dual 0.6	Membrane Dual 1.0	Membrane Dual 1.2
			Result		
	Water vapor diffusion equivalent air layer thickness (s _d value)	m	60	100	120
EN 1928	Water tightness @ 2 kPa			Passed	
EN 13501-1	Fire resistance			Class E	
EN 123111-2	Tensile strength	MPa	≥ 5	≥ 5	≥ 5
EN 12311-2	Elongation at break	%		≥ 350	
EN 1849-2 / ISO 2781	Density	g/cm ³		1.38	
ISO ² 7619	Shore A Hardness			68	
EN 13984	Nail tear strength	N	≥ 25	≥ 50	≥ 70

2. ISO: International Standardization Organization

Description

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

DOWSIL™ Membrane Dual provide weather and airtight seal for fenestration application and can also be used to seal across adjacent building elements.

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 48 months 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.

dow.com

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

