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 outdoor[1]:

- Window installation
- Ventilated facades
- Curtain wall installation

[1]If 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 outer membrane shall have a lower sd 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.

			DOWSIL™ Membrane Dual 0.6	DOWSIL™ Membrane Dual 1.0	DOWSIL™ Membrane Dual 1.2
Test	**Property**	**Unit**	**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

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Typical Properties (Cont.)

			DOWSIL™ Membrane Dual 0.6	DOWSIL™ Membrane Dual 1.0	DOWSIL™ Membrane Dual 1.2
Test	**Property**	**Unit**		**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/cm³		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™ 300 Adhesive.

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

Technical Specifications and Standards

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC régulations	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 bezOglich 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)

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Technical Specifications and Standards (Cont.)

Regulation or protocol	Conclusion	Version of regulation or protocol
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.

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