PRODUCT DATA SHEET

PVC® Roofing Membrane

1.2 /1.5 /1.8 /2.0 mm thick with polyester reinforcement

DESCRIPTION

CANLON PVC waterproofing membrane is a high-performance single-ply thermoplastic membrane, manufactured from premium UV-stabilized polyvinyl chloride (PVC) resin, reinforced with glass fiber mesh for exceptional dimensional stability. It delivers excellent flexibility, high tensile strength, outstanding UV and chemical resistance, and is designed for long-term exposed roofing applications. The membrane is hot-air weldable at seams,forming fully bonded, durable waterproof systems with a service life of up to 25 years.

USES

Exposed flat and low-slope roofs for industrial and commercial buildings.
Public buildings, logistics centers, and warehouse roofing
Roof renovation and re-roofing projects.
Terraces, balconies, and podium decks.
Structures requiring high UV and weather resistance.

FEATURES

- Polyster reinforced structure provides high tensile strength and excellent dimensional stability.
- High solar reflectivity, reduces heat buildup, no need for open fire, safe and environmentally friendly.
- Hot-air weldable at laps, forming permanent and watertight seams.
- Excellent UV resistance, heat resistance, low-temperature flexibility and aging resistance.
- Good chemical resistance, suitable for various complex atmospheric environments.

CERTIFICATES AND TEST REPORTS

- CE Certification (CPR Regulation (EU) No 305/2011, EN 13956:2012)
- BBA Certification (British Board of Agrément, UK)
- FM Approval (Factory Mutual Research, USA)
- GB 12952-2011 Polyvinyl chloride (PVC) waterproofing sheets
- Tested by ILAC-accredited laboratories (SGS)

PRODUCT INFORMATION

Packaging	2.0 x 25 m	2.0 x 20 m	2.0 x 15 m	
Thickness	1.2mm	1.5mm	1.8mm	2.0mm
Weight	1.7kg /m²	2.0kg /m²	2.4kg /m²	2.65kg /m²
Shelf life	Observe 1-year shelf life and use on a first in first out basis. Store in dry conditions at 40°F (4.5°C)-90°F (32°C). Store off ground under tarps or otherwise protected from rain and ground moisture			
Storage conditions	Store in cool and dry place (5 C – 35°C), avoid direct sunlight, rain and snow; keep off ground; max stacking 5 layers			

PRODUCT PROPERTIES

Property	Value	Test Method
Thickness	1.2 / 1.5 / 1.8 / 2.0 mm	EN 1849-2
Tensile Strength (Longitudinal)	≥10 / 14.6 MPa	EN 12311-2
Tensile Strength (Transverse)	≥10 / 11.6 MPa	EN 12311-2
Elongation at Break (Longitudinal)	≥200 / 210 %	EN 12311-2
Elongation at Break (Transverse)	≥200 / 215 %	EN 12311-2
Heat Treatment Dimensional Change	≤0.1 %	EN 1107-2
Low Temperature Bending	-25, No Crack	EN 495-5
Watertightness	0.3MPa, 120min, Watertight	EN 1928
Impact Resistance	0.5kg·m, No Leakage	EN 12691
Static Loading Resistance	20kg, No Leakage	EN 12730
Joint Peel Strength	≥3.0 / 3.3 N/mm	EN 12316-2
Right Angle Tear Strength	≥50 / 58 N/mm	EN 12310-2
Water Absorption (70, 168h)	≤4.0 / 1.5 %	EN 1847-2
Shear Resistance of Joints	≥300 N/50mm	EN 12317-2

BASIS OF PRODUCT DATA

All technical data stated in this Product Data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Product specifications, test data and application scope may vary according to national and regional regulations. Please refer to the latest local product data sheet for details.

ECOLOGY, HEALTH AND SAFETY

This product is non-toxic, halogen-free, plasticizer-free fully recyclable, and contains no harmful substances or volatile organic compounds (VOCs) throughout its service life; it does not contaminate soil or water, produces no hazardous fumes or toxic gases during hot-air welding or installation, is safe for use in drinking water projects, food factories, hospitals, and residential buildings, poses no skin irritation or respiratory risks under normal use, is non-hazardous for transport and not classified as dangerous goods; wear gloves, safety glasses, and protective clothing during installation, keep away from open flames during construction, store in a dry and ventilated area away from sharp objects and heat sources, and dispose of waste materials in strict accordance with local environmental regulations.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end -use of CANLON products, are given in good faith based on CANLON ' s current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CANLON ' s recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. CANLON reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be solid, flat, clean, dry, free of dust, oil, cracks and sharp protrusions.

Membrane Layout

Unroll and align the membrane carefully according to the design layout, maintaining consistent overlap widths for longitudinal and transverse seams. Avoid stretching or wrinkling the material, and pre-cut sheets to fit the roof geometry for efficient installation.

Mechanical Fixing / Adhesion

For mechanically fastened systems, install fasteners and plates at the specified spacing along the membrane edge, ensuring they penetrate the insulation and deck securely. For fully adhered systems, apply a compatible adhesive evenly to the substrate before laying the membrane, pressing firmly to eliminate air bubbles.

Hot-air Welding

Weld 80 – 100mm overlaps at 260 – 315°C using an automatic or manual hot-air welder, moving the nozzle steadily to ensure uniform fusion. After welding, inspect the seams with a seam probe to verify full penetration and watertight integrity.

Detail Treatment

Reinforce corners, pipes, flashings, and roof penetrations with pre-formed accessories or additional membrane strips. Use a hot-air welder to weld the flashing material to the main membrane, ensuring all transitions are smooth and fully sealed against water ingress.

Protection

After installation, protect the membrane from foot traffic, sharp tools, and construction debris. Cover the surface with a temporary protective layer if subsequent trades will work on the roof, and avoid exposing the membrane to open flames or excessive heat during construction.

Jiangsu Canlon Building Materials Co., Ltd.
(Stock Code: 300715)
No. 8, Hengtong Avenue,Wujiang District,
Suzhou City,Jiangsu Province, China
Postal Code: 215200
Tel : +86 198 5125 0151
E-mail : info@canlon.com
Website: www.canlon.com

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