



POLY GUM

App Modified Bitumen Membrane



Description:

POLY GUM is prefabricated torch-on membrane made up of an APP modified -bitumen compound with a Non-Woven polyester reinforcement. These two components provide a reliable watertight covering for a wide range of uses.

POLY GUM is regularly used in civil and industrial works, for foundation and for details in single or multi-ply systems.

Features:

- High heat resistant
- Excellent elongation at break and tensile strength
- Root resistant
- Good puncture resistant
- High aging resistant
- Elastic
- Flexible
- Resistant to both heat and cold
- Provides absolute water tightness

Application Instruction:

POLY GUM can be applied:

- By a propane torch
- By cold adhesive
- Mechanically fastened According to different recommended specifications.

POLY GUM can be applied to the deck:

- Fully bonded
- Spot bonded
- Loose laid
- Starting at the low point of the roof surface, set the roll in the course to be followed and unroll half of the roll where practical.

Position the membrane to provide a 10 cm side lap and a 10 cm end lap. Using the propane torch, the flame should be moved from side to side and the membrane slowly unrolled while pressing onto the underlying surface.

As the surface of the roll is heated, it will develop a sheen.

The generation of heavy smoke is an indication that the surface is overheated.

- All roof decks must be smooth, moisture and dust free, asphalt primed.

Membrane Protection

AIWIN strongly advise that when the membrane is left directly exposed to the open air, a metallic or light colored paint must be applied to create an energy saving reflective surface.

Storage

AIWIN **POLY GUM** must be correctly stored vertically in a dry location and to prevent their becoming deformed or damaged, all rolls must be stored on end and not double stacked

Transportation

Handle with care avoiding overlapping or stacking of rolls pallets

Transportation

Roofing torches have been successfully used for many years however since an open flame is present, all fire and safety precautions must be taken .





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TECHNICAL SPECIFICATIONS

CHARACTERISTICS	STANDARDS	VALUES
ROLL DIMENSION	EN 1848-1	1 X 10m ± 1%
SURFACING		PE film
REINFORCEMENT	BS747	155g/m ² Polyester
THICKNESS ± 5%	ASTM D 5147 /EN 1849-1	3,4,5 mm
MEMBRANE WEIGHT	ASTM D 5147	3,4,5 Kg/m ²
PUNCTURE RESISTANCE @ N	ASTM D 5147	(Class L4) > 450 N
SOFTENING POINT °C	ASTM D 5	20 ±5
PENETRATION at 25°C, dmm	ASTM D 36	150 ±5
COLD FLEXIBILITY	ASTM D 5147 /EN 1109	-2°C
TENSILE STRENGTH(L)	ASTM D 5147 /EN 12311-1	650 N/5 cm
TENSILE STRENGTH(T)	ASTM D 5147 /EN 12311-1	450 N/5 cm
ELONGATION (L)	ASTM D 5147 /EN 12311-1	35%
ELONGATION (T)	ASTM D 5147 /EN 12311-1	40%
TEAR STRENGTH (L)	ASTM D 4073	180 N
TEAR STRENGTH(T)	ASTM D 4073	180 N
HYDROSTATIC RESISTANCE	ASTM D 5385	Watertight after 24 hrs. under 6m of water
WATER ABSORPTION	ASTM D 5147	Less than 1%
WATER VAPOR TRANSMISSION	ASTM E 96	≤0.5 g/m ² /24hr
DIMENSION STABILITY	ASTM D 5147 / EN1107-1	Stable at 100°C
FLOW RESISTANCE IN VERTICAL AT 90°C	EN 1110	≤0.5 mm
AGEING	ASTM D 4799	No signs of deterioration
VOC		<50 ppm
CHEMICAL RESISTANCE		Membranes are resistance to chloride salts, sulphate and phosphate found in ground water

This technical data complement to ASTM, B.S, and UEAtc.

This product data sheet supersedes all previous data publication pertaining to this product.

All values given refer to standard production within the usual factory tolerance.

(Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to standard).

Aiwin reserve the right to change said values without advance notice but without affecting the quality of the product.



AIWIN

Arab Italian Waterproofing
& Industries Co. W.L.L

الشركة العربية الإيطالية
لبناء مواد العازلة

Showroom

Tel: +962 (6) 5332145

Tel: +962 (6) 5332146

Factory

Tel: +962 (6) 4460861 - 4460862

Fax: +962 (6) 4460587

P.O.Box 960525 Amman 11196 Jordan

E-mail: info@aiwin-jo.com

www.aiwin-jo.com