



Technical Data Sheet

PYGE MEMBRANES

PYG40E, PYG40250E, PYG50E, PYG60E

APP modified bituminous membrane, reinforced with double carriers
(Polyester + Glass Fiber); complies with
ASTM D 6223, Type I & II, Grade S and SASO 2634

DESCRIPTION

High Performance, APP Modified bituminous membrane, reinforced with two carriers (non woven polyester mat and glass fiber mat) The polyester combines high tensile strength and elongation and glass fiber provides dimensional stability. The special polymer modifier used has great resistance to ultra - violet radiation.

FEATURES

- Ideal to use as Hot Mix under layer
- High Flexibility at low temperature and stability at high temperature.
- Durable and easy to apply.
- Remarkable resistance to aggressive attack of salts and chemicals.
- High tensile strength, elongation and dimensional stability.
- Heavy duty double carriers provides anti-root characteristics.

FUNCTIONS

Ideal to use as single and/or double layers waterproofing of reinforced concrete bridge decks. Also used for general waterproofing applications where impact resistance, toughness and dimensional stability are required.

INSTRUCTIONS FOR APPLICATION

The substrate should be cleaned and primed with AWAZEL PRIMER D 41 and allowed to dry. In roof waterproofing applications, these membrane can be installed as fully bonded or loose-laid. For bridge deck applications, they must be fully bonded to avoid wrinkling caused by heavy vehicles breaking in the bridge.

Torching should be done by skilled labor and should be controlled so that only the PE film is melted and the asphalt coating is softened sufficient to bond the membrane. All lap joints should be smoothed and sealed using a heated round-nosed trowel. In loose-laid applications, only the lap joints, areas around penetrations (pipes etc.), upstands and a 30 cm wide strip around the perimeter of the work should be bonded. The overlap joints should be 5 to 10 cm at the sides and 15 cm at the end.

COVERAGE

1.12 meter per layer : for flat surfaces

HEALTH & SAFETY

All safety measures should be taken during application. Fire extinguishers should be available in the site. Labor should wear personnel protective tools such as gloves and goggles during application.

PACKING

It is produced in rolls of 1 x 10 and 1 x 8 meters; special lengths are available upon request. The rolls are palletized and shrink-wrapped.

SURFACING

Surfaced with P.E. Film on both sides.

STORAGE & MATERIAL HANDLING

The rolls should always be stored vertically in a shaded area. Normally the pallets should not be stacked one over the other. However, if a wooden board is used in between, two pallets may be stacked one over the other.

MR011604

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TECHNICAL DATA

Properties	Typical Results				Test Method
	PYG40E	PYG40250E	PYG50E	PYG60E	
Roll Size, m	10 x 1	10 x 1	8 x 1	8 x 1	ASTM D 5147
Thickness, mm	4.0	4.0	5.0	6.0	ASTM D 5147
Unit Weight (Plain), kg/m ²	4.0	4.0	5.0	6.0	ASTM D 5147
Carrier Polyester, g/m ² Glass Fiber, g/m	200 50-60	250 50-60	250 50-60	250 50-60	UEAtc M.O.A.T. 30
Coating Asphalt Type	APP Modified Asphalt				
Softening Point, °C	155				ASTM D 36
Penetration at 25°C, 0.1 mm	15 - 30				ASTM D 5
Tensile Strength, N/5cm Longitudinal Transverse	* 1,100 800	* 1,200 1,000	* 1,200 1,000	* 1,250 1,050	ASTM D 5147 ASTM D 146
Tensile Strength, ASTM D 6223, Requirements, kN/m Longitudinal & Transverse	Type I ≥ 11.4	Type II ≥ 17.5			ASTM D 5147 ASTM D 146
Tensile Strength at - 18 °C, kN/m Longitudinal	* 23 15	* 30 20			ASTM D 5147 ASTM D 146
Ultimate Elongation, % : Longitudinal Transverse	** 45 50				ASTM D 5147 ASTM D 146
Elongation, ASTM D 6223 Requirements, %Longitudinal & Transverse	≥ 3				ASTM D 5147 ASTM D 146
Elongation at - 18 °C, % Longitudinal & Transverse	26 & 30				ASTM D 5147 ASTM D 146
Tear Resistance, N:Longitudinal Transverse	500 400	650 450	700 500	700 500	ASTM D 4073
Lap Joint Strength, N/5cm Longitudinal & Transverse	Some as Membrane				UEAtc M.O.A.T. 30 & 27
Load Strain Product: Longitudinal Transverse	49,500 40,000	54,000 50,000	54,000 50,000	56,250 52,500	CGSB 37-GP 56M
Cold Flexibility at -5 to -10 °C	No Cracking				UEAtc M.O.A.T. 30
Flexibility, ASTM Requirement	No Cracking at 0 °C				ASTM D 5147
Heat Resistance at 150 °C	No Flowing				UEAtc M.O.A.T. 30
Resistance to Water Pressure	No Leakage				DIN 52123
Water Absorption, %	≤ 3.2				ASTM D 5147
Static Puncture Resistance	L3 (15 kg)	L4 (25 kg)			UEAtc M.O.A.T. 27
Dynamic Puncture Resistance	13 (8-12mm)	14 (4-6 mm)			UEAtc M.O.A.T. 27
Dimensional Stability, %	≤ 1.0				ASTM D 5147
Moisture Content (W.Y.T.), %	≤ 1.0				ASTM E 96
Resistance to Aging after 2000 hrs	No Deteriorations				ASTM D 4799

Note: The above shown technical data are typical results obtained, to the best of our knowledge. From our quality control records extra details can be provided upon request.

* In accordance to the standard, a variation of 20% is expected.

** In accordance to the standard, a variation of 15% is expected.

Refer TDS Control Nos. SA011604, SA021604 & SA031604 for Supporting Accessories

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