



Technical Data Sheet

PYGS MEMBRANES

PYG40S, PYG40200S, PYG40250S, PYG50S

SBS modified bituminous membrane, reinforced with double carriers
(Polyester + Glass Fiber); complies with
ASTM D 6162, Type I & II, Grade S and SASO 2647

DESCRIPTION

SBS 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.

FEATURES

- Superior flexibility at low temperature
- 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.
- Excellent tear and puncture resistance
- Ideal for low temperature climate

FUNCTIONS

Can be used as single and/or double layers waterproofing applications. Ideal for areas with cold and moderate climates. Also suitable for planter box applications.

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.

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.

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TECHNICAL DATA

Properties	Typical Results				Test Method
	PYG40S	PYG40200S	PYG40250S	PYG50S	
Roll Size, m	10 x 1	10 x 1	10 x 1	8 x 1	ASTM D 5147
Thickness, mm	4.0	4.0	4.0	5.0	ASTM D 5147
Unit Weight (Plain), kg/m ²	4.0	4.0	4.0	5.0	ASTM D 5147
Carrier Polyester, g/m ² Glass Fiber, g/m ²	180 50-60	200 50-60	250 50-60	250 50-60	UEAtc M.O.A.T. 31
Coating Asphalt Type	SBS Modified Asphalt				
Softening Point, °C	> 115				ASTM D 36
Penetration at 25°C, 0.1 mm	30 - 45				ASTM D 5
Tensile Strength, N/5cm Longitudinal Transverse	* 1,000 800	* 1,100 1,000	* 1,200 1,050	* 1,200 1,100	ASTM D 5147 ASTM D 146
Tensile Strength, ASTM D 6162 Requirements, kN/m Longitudinal & Transverse	Type I ≥ 13.1	Type II ≥ 21.9			ASTM D 5147 ASTM D 146
Ultimate Elongation, % : Longitudinal Transverse					** ASTM D 5147 ASTM D 146
Elongation, ASTM D 6162 Requirements, % Longitudinal & Transverse	≥ 2	≥ 4			ASTM D 5147 ASTM D 146
Tear Resistance, N: Longitudinal Transverse	450 400	550 450	600 500	600 500	ASTM D 4073
Lap Joint Strength, N/5cm Longitudinal & Transverse	Same as Membrane				UEAtc M.O.A.T. 31 & 27
Load Strain Product: Longitudinal Transverse	45,000 40,000	49,500 50,000	54,000 52,500	54,000 55,000	CGSB 37-GP 56M
Cold Flexibility at -15 to -20 °C	No Cracking				UEAtc M.O.A.T. 31
Flexibility, ASTM Requirement	No Cracking at -18 °C				ASTM D 5147
Heat Resistance at 100 °C	No Flowing				UEAtc M.O.A.T. 31
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	I3 (8-12mm)	I4 (4-6 mm)			UEAtc M.O.A.T. 27
Dimensional Stability, %	≤ 1.0				ASTM D 5147
Moisture Content (W.V.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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