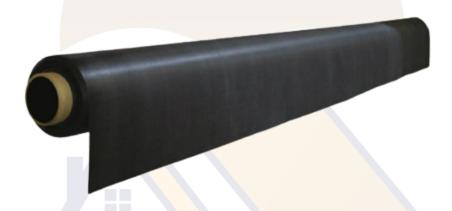
EPDM MEMBRANE TDS



TECHNICAL SPECIFICATIONS

EPDM membrane based roofing protection, is an application developed in the USA almost four decades ago and continues to be one of the most popular applications of the polymer.

EPDM Single Ply Waterproofing System is specially de-signed to protect all reinforced concrete structures and metal surfaces on or under the ground in the Arabian Peninsula. Due to exceptional weather and water resistance, TEPDM sheets are used for the protection of rooftops of commercial and residential buildings, Airport Terminal buildings and any structure where protection from rain water seepage is of prime importance.



DESCRIPTION

The EPDM is a cured single-ply synthetic roofing membrane made of ethylene, propylene, diene, terpoly-mer. Depending on roofing dimensions, the waterproofing surface may be seamless. In other situation, seams can be made using adhesives or tape.

The standard gauge thickness of RUBBERGUARD EPDM Membranes is 1.0mm, 1.20mm and 1.50mm. However upon customer request membranes of any thickness ranging from 0.75 to 3.0mm can be supplied.

PREPARATION

Product: Allow the membrane to relax for approximately

30 minutes before installation.

Substrate: Roofing structure need to be stable enough to support the temporary loading. Substrate needs to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane.

APPLICATION

Install EPDM membrane in accordance with current specifications and details.

COVERAGE

The dimensions of the membrane are calculated to cover the seam overlaps (75 - 100mm for standard seams – 180mm for B.I.S) and upstands. Provide an additional length (100mm) at upstands for easy manipulation.

PHYSICAL

Elastomeric membrane with a good combination of high elasticity and tensile strength. Water-resistant.

Temperature stable from – 45 °C to 130 °C

Retains its elasticity at low temperature and resistance to temperature shocks up to 250 °C.

Excellent resistance to alkali rains, less resistant to oil products. Contact with some kind of oils, petroleum

products, hot bitumen and grease must be avoided.

Excellent resistance to UV radiation and ozone concentration.

TECHNICAL

Base EPDM

Colour & Finish Black, Fabric Finish/ smooth finish

Solvents None

Solids (%) 100

State Cured

Storage Store the membrane in a dry place until use.

TECHNICAL SPECIFICATIONS - EPDM WATERPROOFING MEMBRANE

NO.	PROPERTY		TEST STANDARD	SPECIFIED VALUES**	TYPICAL
	Specific Weight, kg/m ²	0.75 mm thick sheet		(A	0.90±0.20
		1.00 mm thick sheet		-	1.20±0.20
		1.14 mm thick sheet			1.36±0.20
1		1.20 mm thick sheet			1.44±0.20
		1.50 mm thick sheet			1.80±0.20
		2.00 mm thick sheet			2.40±0.20
2	Tolerance on nominal gauge		ASTM D 412	±10%	± 10%
3	Texture & Color		Visual Check		Fabric Finish, Black
4	Tensile strength, min., MPa		ASTM D 412	9.0	10.5
5	Elongation at break, min., %		ASTM D 412	300	475
6	Tear strength, min., kN/m Factory Seam Strength, Min, Kn		ASTM D 624 Die C	26.3	34.0
7			ASTM D 816 Method B (Modified)	8.8 OR Membrane Rupture	Membrane Rupture
8*	Brittleness Temperature, ⁰ C		ASTM D 746	- 45	- 55
	Resistance to heat ageing (Properties after 168 hrs. exposure @ 116 C)		ASTM D 573	-	
	Tensile strength, min., MPa		ASTM D 412	8.3	10.1
	Elongation at break, %		ASTM D 412	200	230
9*	Tear strength, kN/m		ASTM D 624	21.9	31.5
	Linear Dimensional Change, Max, %		ASTM D 1204	±1.0%	- 0.5
	Ozone Resistance				
10*	Condition after exposure to 10 for 168 hrs @ 40 C (Sample at	ASTM D 1149	No Cracks	No Cracks	





11*	Resistance to water absorption, Change in mass, max, after 168 hrs immersion @ 70°C, %	ASTM D 471	+ 8, - 2	+ 1.8
12*	Resistance to outdoor (UV) weathering Xenon Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80 ⁰ C black panel temperature	ASTM G 151	No Cracks, No Crazing	No Cracks, No Crazing
13*	Sheet Composition, Weight % of Polymer (EPDM), min, %	ASTM D 297		100
14*	Water Vapor Permeability, max, perms	ASTM E 96 (Proc B or BW)	0.10	0.05

^{*} Not a routine quality control test due to the time required / complexity of the test. However, all tests are performed on a statistical basis to ensure overall long-term performance of the sheeting.

ASTM D 4637 – Standard Specification for EPDM Sheet Used In Single-Ply Roof Membrane

ASTM D6134 – Standard Specification for Vulcanized Rubber Sheets Used in Waterproofing Systems (Type I)

• The above results are generated by tests believed to be accurate and reliable. However, due to normal variations between samples and differences in testing methods, conditions and apparatus, we cannot not guarantee duplication of these results at all time. All values refer to the material leaving the factory. All warranty claims are subject to the terms of contract. Product specifications are subject to change without prior notice



EAK LOCK