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PRODUCT CATALOG

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ABOUT US

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INTERFLEX PLASTIC INSULATION is a company established in 2013 to meet the needs in the construction and insulation sector and to contribute to the country's industry.

INTERFLEX PLASTIC INSULATION, which provides the production and sales of products that offer the maximum benefit for the construction sector, serves with its solutions suitable for the purpose in all projects it takes place.

It produces geomembranes with an annual capacity of 2 million m² in its production facility, which started operating in Ankara in June 2020 and has an area of 2,500 square meters.

INTERFLEX branded Geomembrane product successfully passed TS EN 13967, TS EN 13491, TS EN 13361 and TS EN 13362 conformity tests.

The production line is the latest technology and it continues its R&D activities with its own laboratory and with experienced competent personnel structure in order to meet the needs of the sector.



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OUR PRODUCTS

1- PVC GEOMEMBRANE

- a. Solid Color with signal layer
- b. UV Resistant
- c. Anti-Bacterial
- 2-EPDM GEOMEMBRANE
- 3-HDPE GEOMEMBRANE
- 4-T-GRIP HDPE / PVC GEOMEMBRANE
- **5-DRAINAGE SHEET**
- **6-WATER HOLDING BANDS**
- 7-GEOTEXTILE SEALS





Geomembrane

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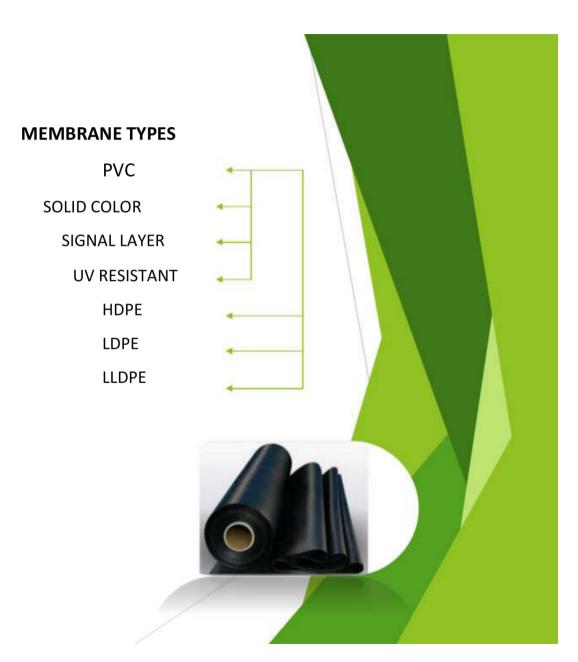
GEOMEMBRANES

As it is used for waterproofing in foundations, curtains and roofs, due to its high chemical resistance, it is also used in applications of requiring protection of concrete from all kinds of gas, acid and base chemicals and in isolation of HDPE types of solid wastes.

AREAS OF USE

Roofs, tanks, irrigation channels, ponds, foundations, bridges, tunnels, industrial facilities, sports facilities, parking garages, residences and solid wastes.

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Pvc geomembrane

TECHNICAL FEATURES

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- High in tensile and elongation resistance.
- It shows flexibility in cold, does not crack or break.
- If desired, they can be produced with Signal
 Layer UV Resistant and Geotextile Reinforced.
- Since they are applied with free laying technique, they are affected at a minimum level from the vibrations that occur in the buildings.
- They can be produced in different colors and sizes.
- It is resistant to plant roots.
- It is recyclable.
- It is resistant to -40, +70 degrees.
- Joints are combined with double-channel seam welding robots.
- It prevents corrosion and is resistant to aging.
- It is in E class in fire resistance. It is nonflammable.
- It is long-lasting.
- It shows high resistance to mechanical impacts.

FEATURE	LIMITS	EXPERIMENT	
FEATURE	LIMITS	STANDARD	• S
Thickness	1.00 mm minimum	DIN 53370	te
Tensile Strength	15 N/mm² minimum	DIN 53455	fr
Breaking Elongation	250% minimum	DIN 53455	• T
Compressive Strength at 20% elongation	2,5 N/mm²	DIN 53454	• It
Tear Spread Strength	100 N/mm minimum	DIN 53363	• It
Resistance Under Water Pressure	Impermeable for 10 hours at 10 bars	DIN 16726	• It
Strength of Welded Joint	13.5 N/mm² minimum	DIN 16726	• Jo
Dimensional Stability After Rapid Aging	± 2% max	DIN 16726	W
Material Properties During and After Storage at 80 º	C:	DIN 16726	• It
a. General Appearance	There will be no bubbles		• It
b. Dimensional Stability, longitudinal and transverse	<-3%		n
c. Change in Tensile Strength, longitudinal and transverse	e <±20%		• 1
d. Change in Unit Elongation at break, longitudinal and			•
transverse	<±20%		
e. Folding, at a temperature of -20 °C	Will not be cracked		
Behavior After Storage in Acid and / or Alkaline Solu	DIN 16726		
a. Change in Tensile Strength, longitudinal and transverse	e <±20%		
b. Change in Unit Elongation	100 N/mm minimum	DIN 53363	
c. Folding, at a temperature of -20 °C	Will not be cracked		
Shear Strength, Bituminous Joint	100 N / 50 mm	DIN 16726	
Behavior During Stapling Test	No punching at 750 mm high	DIN 50014	
Water Absorption	Max. 1%	DIN 53495	



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EPDM Geomembrane

EPDM is a synthetic rubber made of Ethylene and Propylene.

While the properties of natural rubber (high elasticity, expansion, tensile strength, resistance to cold) cannot be changed practically, synthetic rubber has the opportunity to produce rubber according to the desired place of use and requirements by affecting / changing the raw materials and molecular structure of the rubber, namely the structure of the polymer.

Even in high temperature changes, preserving its elasticity, tensile strength and elongation at break, it is resistant to different weather conditions, sunlight, ozone, acid and solutions.

AREAS OF USE

In building foundation and side curtain insulation,
On terraces and domed roofs,
On curtain walls,
At the bottom of the ponds,
In refinement facilities



EPDM Geomembrane

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TECHNICAL FEATURES

I L CI II VICA	ALTEATORES				
STANDARD NO		FEATURE	REQUIRED		
TS EN 1850-2		VISIBLE DEFECTS	THERE SHOULD BE NO VISIBLE DEFECTS		
TS EN 1848-2		LENGTH	DECLARED LIMIT		
TS EN 1848-2		WIDTH	DECLARED LIMIT		
TS EN 1849-2		THICKNESS	DECLARED LIMIT		
TS EN 1849-2		UNIT FIELD MASS	DECLARED LIMIT		
TS EN 1928 (METHO	DD B) - EN 14150	LIQUID PROOF	TEST RESULT SHOULD BE WATERPROOF.		
TS EN 12691		IMPACT RESISTANCE	THE SMALLEST DIAMETER THAT THE PRODUC <mark>T CAN SHOW RESISTANC</mark> MUST BE EQUAL OR SMALL TO THE MANUFAC <mark>TURER</mark> 'S LIMIT VALUE.		
TS EN 1296TS EN 19	928 (METHOD B)	DURABILITY	THE WATERPROOFING MUST CONTINUE AFTER THE PRODUCT HAS BEEN EXPOSED TO AGING.		
TS EN 1847TS EN 19	928 (METHOD B)	RESISTANCE AGAINST CHEMICAL AGENT	WATERPROOFING SHOULD CONTINUE AFTER THE PRODUCT IS EXPOSE LONG-TERM TO DILUTE ALKALINE.		
TS EN 12310-1		RESISTANCE TO TEARING	DECLARED LIMIT		
TS EN 12317-2		ADDITIONAL SPACE STRENGTH	DECLARED LIMIT		
TS EN 12730 (METH	IOD B)	RESISTANCE TO STATIC LOADS	DECLARED LIMIT		
TS EN 12311-2		TENSILE PROPERTIES	DECLARED LIMIT		
TS EN 12311-2		BREAKING ELONGATION	DECLARED LIMIT		
EN ISO 527		TENSILE STRENGTH	DECLARED LIMIT		
EN ISO 12236		RESISTANCE TO STATIC PUNCHING	DECLARED LIMIT		
EN 12224		RESISTANCE TO WEATHER CONDITIONS	DECLARED LIMIT		
EN 14575		RESISTANCE TO OXIDATION	DECLARED LIMIT		
ASTM D 1434		GAS SEALING	NPD		
TS EN 12317-2		SCRAPPING RESISTANCE	DECLARED LIMIT		
TS EN 1847 - TS EN	1928	RESISTANCE TO ALKALINE	WATERPROOFING MUST CONTINUE.		
TS EN 13501	Kerem/KALKANCI	COMBUSTION CLASS	CLASSIFICATION		
TS EN 1931	Noter feminli Tercüman Notary Certified Translator	WATER VAPOR PROOF FEATURE	DECLARED LIMIT		

HDPE Geomembrane

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AREAS OF USE

- Solid waste storage areas
- Liquid waste collection and refinement stations
- Seepage water collection pools of gold and other mines
- Oil tank and oil fields isolation
- **Sedimentation Ponds**
- Manure pits
- Building foundation bundling works if desired
- **Ponds**
- Tunnels
- Irrigation channels
 - Bioenergy production facilities







PRODUCT FEATURES

- It is highly resistant to chemical substances.
- It is UV resistant.
 - Due to rough surface, friction share decreases.
- It shows high resistance to organic and inorganic solutions.
- It is extremely resistant to cracking.
- It is resistant to natural conditions.
- It is resistant to punctures and cracks.
- It has low permeability.
- It has high tensile strength.



HDPE Geomembrane

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PHYSICAL FEATURES

THICKNESS	EN1849-2	mm	1.0 mm	1,5 mm	2.0 mm	2.5 mm	3.0 mm	
DENSITY	EN ISO 1183-1	gr/m³	0,935-0,965	0,935-0,965	0,935-0,965	0,935-0,965	0,935-0,965	
UNIT FIELD MASS	EN1849-2	gr/m²	940	1410	1880	2350	2820	
MECHANICAL FE	MECHANICAL FEATURES							
STRESS IN FLOW STRENGTH	EN ISO 527	N/mm²	> 16	> 16	> 16	> 16	> 16	
ELONGATION IN THE								
FLOW	EN ISO 527	%	>12	>12	>12	>12	>12	
STRESS AT BREAK STRENGTH	EN ISO 527	N/mm²	>26	>26	>26	>26	>26	
ELONGATION AT BREA	K EN ISO 527	%	>700	>700	>700	>700	>700	
STATIC DRILLING	EN ISO 1223	6 N	2400	3700	4900	6050	7200	
TEAR STRENGTH	ISO 34-1	N/mm	>130	>140	>140	>140	>140	
UNIT FIELD MASS	EN1849-2	gr/m²	940	1410	1880	2350	2820	
SLIP STRENGTH	ASTM 6392	N/25mm	350	525	701	876	1050	

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HDPE Geomembrane

DURABILITY AND CHEMICAL RESISTANCE

CARBON BLACK CONTENT	ASTM D 1603	%	2-3	2-3	2-3	2-3	2-3
CARBON BLACK DISTRIBUTION	ASTM D 5596	CATEGORY	′ 1/2b	1/2b	1/2b	1/2b	1/2b
MELT FLOW INDEX	EN ISO 1133	gr/10 min	2.16 kg 190 0C; <1 5.0 kg 190 0C; <3				
RESISTANCE TO WEATHER CONDITIONS	EN 12224	%	<25	<25	<25	<25	<25
OXIDATION RESISTANCE	EN 14575	%	<25	<25	<25	<25	<25
RESISTANCE TO TENSION CRACK OXIDATIVE INDUCTION	EN14576 ASTM D 5397	h	>200	>200	>200	>200	>200
TIME	ASTM D 3895	>100	>100	>100	>100	>100	>100
FIRE TEST	EN ISO 11925-2	_	Class E				
RESISTANCE TO SOLID LIQUID EXTRACTION	EN 14415	%	METHOD A, B; <5 METHOD C; <25				
WATER PERMEABILITY	EN 14150 m	³/m².day	<10-6	<10-6	<10-6	<10-6	<10-6

T-grip Geomembrane

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T-Grip Geomembrane

It is a model with protrusions at certain intervals along the roll to hold the geomembrane to the concrete.

Areas of Use

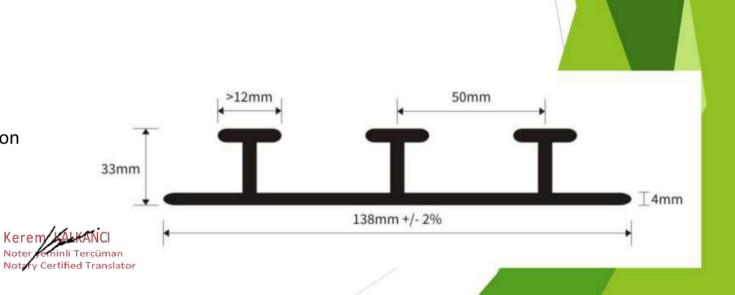
In reinforced concrete tanks

In refinement facilities

In irrigation channels

In waste water tunnel insulation

In sewer systems



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T-grip Geomembrane

TECHNICAL FEATURES

Features		Standard	Control
Visible Defects		TS EN 1850-2	There should not be any visible defects
Length		TS EN 1848-2	Declared limit
Width		TS EN 1848-2	Declared limit
Thickness		TS EN 1849-2	Declared limit
Unit Field Mass		TS EN 1849-2	Declared limit
Density (g/cm3)		TS 1320	Between 1.25-1.27
Liquid Impermeability (Under 0.15	Bar Pressure)	EN 14150	It must be waterproof
Tensile Strength (N/mm2), minimu	m	EN ISO 527	Min. 15 N
Elongation at Break (%), minimum		EN ISO 527	Min. 250%
Weather Resistance (%)		EN 12224	Between 1 to 10
Oxidation Resistance (%)		EN 14575	Max. 5%
Gas Tightness		ASTM D 1434	NPD
Tear Strength (kN/m)		ISO 34-1	Between 80-100
Resistance to Heat and Cold (10 mi	nutes at 80°C and -30°C)	DIN 53361	It should not be torn or cracked
Flammability class		TS EN 13501	Classification
Flexibility in Cold	Kerem KALKANCI		There should be no breakage or
	Noter feminii Tercüman Notary Certified Translator	EN 495-5	cracking

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Drain board

HDPE, made of high density polyethylene, is a layer resistant to plant roots and rot, separating the curtain wall from the soil

by protecting it from water and moisture. Due to its bubbly structure, it is both protective and is also used as a means of insulation

Advantages

It provides equal distribution of pressure given by soil load. Resistant to plant roots and rotting.

Prevents the waterproofing from damages that may occur while making the earthfill.

The air between the bubbles allows the curtain wall to breathe.

Areas of Use

It is used in foundations, curtain, terrace roofs and floors and for water removal on highways, railways and tunnels.



Water retaining tape

It is a concrete building element that aims to prevent the passage of fluids when they are continuously embedded in concrete joints and flow. It protects the building against damaging elements such as water, mud and moisture that can be encountered in ordinary construction.

Where to Use?

Dams

Tunnels

Water Storage Tanks

Waste Refinement Units

Swimming Pools

Channels - Bridges

Subway Stations

Sewerage Systems

Irrigation channels

Transport Tunnels

Hydroelectric Power Plants

Air Ducts

Protection Walls



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Geotextile felt

It is a continuous surface used to separate two different types of floors. It resists the tensile forces dispersed in the ground mass and acts as a reinforcing element. Filter properties can be used for pollution purposes. While it prevents the passage of solid particles, it remains sufficiently permeable to liquid and gas. It has hydraulic and mechanical level functions. It is the protective and separating layer.

It is used for insulation of vertical and horizontal surfaces, pond and tunnel lining in order to increase the double-sided durability and flexibility of the geomembrane material.

Functions

- 1. Drainage
- 2. Filtration
- 3. Separation
- 4. Protection
- 5. Reinforce



AREAS OF USE

- In tunnels
- In the drainage of groundwater
- Where drilling of insulation material will not be required
- In slope arrangement



Geotextile felt

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TECHNICAL FEATURES

							1
Weight	Thickness	Withdraw Strength	Tearing	Static Puncture	Dynamic Puncture	Water	Aperture Size
gr/m2	mm	[kN/m]	%	N	mm	m/sec	mm
100	1	67	50-80	1500	28	0,09	0,14
150	1,5	810	50-80	2000	26	0.08	0,13
200	1,5	1113	50-80	250	24	0,07	0,13
250	2	13-15	50-80	3000	20	0.06	0,12
300	2.3	17-19	50-80	3400	16	0,05	0,12
350	2.6	19-21	50-80	3800	12	0,042	0,11
400	3	21-23	50-80	4300	8	0,035	0,11
450	3.3	23-25	50-80	4800	4	0,03	0,1
500	4	27-40	50-80	5500	3	0.036	0.08
600	4,7	31-33	50-80	6000	2	0,02	0, <mark>09</mark>
700	5.4	35-37	50-80	6500	1	0,015	0,09
800	6.1	39-41	50-80	7700	0.5	0.001	0.08
1000	6,5	45-49	50-80	9200	0,4	0.006	0,07
1200	7.1	51-55 Ker	50-80 em/KANCI	10900	0,35	0,004	0.06

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OUR QUALITY STANDARDS

In line with the honest, principled working basis, in order to manufacture the right products for our business partners all our business processes from manufacture to sale, from sales to customer services are designed according to our quality handbook and are binding for all INTERFLEX PLASTIK employees.

Our Quality Handbook is the proof of our commitment to providing services in accordance with customer and legal requirements. In this context, the main purpose of our Quality Handbook is to indicate the proximity and importance of our company to the concept of quality and to describe the activities that our company has done or plans to do for this. The documents we receive to certify our quality standards are an integral part of our Quality Handbook.











OUR REFERENCES



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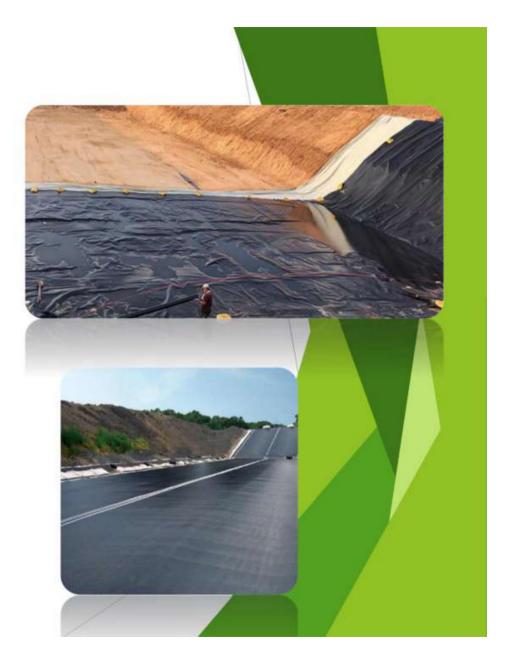
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On any topic

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