



**UNITECH**

Isam Kabbani Group of Companies  
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**INSULATION AND PROTECTION SOLUTIONS**

# POLYETHYLENE VAPOR BARRIER

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POLIANE POLYETHYLENE VAPOR BARRIER  
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**POLIANE®**

## PRODUCT DESCRIPTION

Poliane is a polyethylene vapor barrier to alkalis, salts, acids and chemicals found in sub-soils. Fully stable and waterproof.

## DIMENSIONS

Supplied in rolls of different lengths, widths and thicknesses.  
Film Thickness: From 100 gauges (25 Microns) to 1200 gauges (300 Microns).  
Film Length: up to 25 meters.  
Film Width: up to 4 meters

## BASIC USE

Used as a vapor barrier and damp proof membrane in concrete slabs, floors, insulation boards shuttering , etc... For corrosion protection of water and oil pipelines. Protects from the sun, wind, rain, dust and damage.

## COMPOSITION & MATERIALS

Poliane is an anti-corrosive and weather resistant polyethylene vapor barrier.



## APPLICATION

Sleeves for corrosion protection of water and oil pipelines.  
 Agricultural film for greenhouses, plastic tunnels & other agro-techniques.  
 Construction film used as a vapor barrier and damp proof membrane in concrete slabs, floors, over insulation boards, shuttering etc.

## DURABILITY

It retains its physical properties and remains chemically resistant to aggressive soil organism, plant and other soil fauna as well as domestic sewage and retains its flexibility in temperatures over 80oC.

## TECHNICAL SPECIFICATIONS

**TABLE 1- POLYETHYLENE FILM THICKNESS**

Millimeter	Gauge	Micron (μ)	Mill
0.05	200	50	2
0.08	320	80	3.2
0.10	400	100	4
0.15	600	150	6
0.20	800	200	8
0.25	1000	250	10
0.30	1200	300	12

1 guage= 1/100 mill = 1/100,000 inch=25.4/100,000mm = 0.254 micron

**TABLE 2 - TYPICAL PERFORMANCE CHARACTERISTICS**

Properties	Unit	Value	Test Method (ASTM)
Density at 24°C (unpigmented)	g/cc	0.923	D-1505
Dart impact	g	100	D-1709
Tear resistance	kg/cm <sup>2</sup>	80	D-1004
Tensile strength (Longitudinal direction)	kg/cm <sup>2</sup>	180	D-882
Transverse direction)	kg/cm <sup>2</sup>	170	D-882
Elongation (Longitudinal direction)	%	230	D-882
Transverse direction)	%	375	D-882
Transparency	%	20	D-1746
Gloss	45	40	D-2457
Haze	%	9.0	D-1003
Heat seal range	°C	115-175	-
Moisture Loss	g/cm <sup>2</sup>	0.055	C-156

# LOCATIONS

## KIGDOM OF SAUDI ARABIA

unitech.ksa@ikkgroup.com

### Jeddah

Tel : +966 12 627 8222  
Fax: +966 12 627 8722

### Jeddah - Ghurab Showroom

Tel : +966 12 667 2000  
Fax: +966 12 661 4306

### Mak kah/Taif

Tel : +966 12 541 1206  
Fax: +966 12 532 1675

### Mad inah

Tel : +966 14 842 1095  
Fax: +966 14 842 1090

### Yanbu

Tel : +966 14 390 1499  
Fax: +966 14 322 7101

### Khamis Mushayt

Tel : +966 17 237 5929  
Fax: +966 17 237 8783

### Najran

Tel : +966 17 546 3873  
Fax : +966 17 546 3873

### Al Baha

Tel : +966 17 237 5929  
Fax: +966 17 237 8783

### Sharorah

Tel : +966 17 532 8153  
Fax: +966 17 532 8153

### Gizan

Tel : +966 17 321 6660  
Fax: +966 17 321 0665

### Riyadh North

Tel : +966 11 415 5465  
Fax: +966 11 456 6627

### Riyadh South

Tel : +966 11 448 0112  
Fax: +966 11 447 7421

### Riyadh West

Tel : +966 11 431 6271  
Fax: +966 11 431 7642

### Riyadh East

Tel : +966 11 448 0112  
Fax: +966 11 447 7421

### Qassim / Buraidah

Tel : +966 16 382 3946  
Fax: +966 16 385 2186

### Hail

Tel : +966 16 543 3931  
Fax: +966 16 543 3935

### Skakah / Qurayyat

Tel : +966 14 626 3904  
Fax: +966 14 626 3905

### Tabuk

Tel : +966 14 423 5203  
Fax: +966 14 423 5203

### Hafr el Batin

Tel : +966 13 729 3644  
Fax: +966 13 729 3644

### Dammam

Tel : +966 13 859 0097  
Fax: +966 13 857 8177

### Jubail

Tel : +966 13 361 4390  
Fax: +966 13 362 4499

### Hofuf

Tel : +966 13 530 1474  
Fax: +966 13 530 7144

## FACTORIES

### SFSP - KSA

sfsp.jeddah@ikkgroup.com

Specialized Factory for Steel Products

#### 3rd Industrial City / Jeddah

Tel: +966 12 637 4482  
Fax: +966 12 636 1963

### SFSP / UAE

sfsp.uae@ikkgroup.com

SIGMA Factory for Steel Products

#### DIC (Dubai Industrial City)

Tel : +971 4 818 1919

### SFSP / Egypt

sfsp.cairo@ikkgroup.com

Specialized Factory for Steel Products

#### 6th of October City Giza

Tel : +20 2 3820 6477  
Fax: +20 2 3820 6036

### SFSP / Lebanon

sfsp.lebanon@ikkgroup.com

Specialized Factory for Steel Products

#### Tanayel, Bekaa

Tel: +961 8 514 290  
Fax: +961 8 514 291

## BAHRAIN

unitech.bahrain@ikkgroup.com

### Manama

Tel : +973 17 874 897  
Fax: +973 17 789 470

## KUWAIT

unitech.kuwait@ikkgroup.com

### Kuwait City

Tel : +965 2 4924 937  
Fax: +965 2 4924 938

## UNITED ARAB EMIRATES

unitech.uae@ikkgroup.com

### Dubai - Al Rashidiyah

Tel : +971 4 2591 773  
Fax : +971 4 2591 774

### Abu Dhabi - Musaffah

Tel: +971 2 552 3393  
Fax: +971 2 552 5499

## OMAN

unitech.oman@ikkgroup.com

### Muscat

Tel : +968 24 591 006  
Fax : +968 24 597 006

## JORDAN

unitech.jordan@ikkgroup.com

### Amman

Tel : +962 6 556 3030  
Fax: +962 6 554 7911

### Aqaba

Tel : +962 6 556 3030  
Fax: +962 6 554 7911

## PAKISTAN

unitech.pakistan@ikkgroup.com

### Karachi - Clifton

Tel-Fax : +92 21 35826120

## EGYPT

unitech.egypt@ikkgroup.com

### Cairo 6<sup>th</sup> of October City

Tel : +20 2 3820 6477  
Fax: +20 2 3820 6036

## LEBANON

unitech.lebanon@ikkgroup.com

### Beirut

Tel : +961 1 858 277  
Fax: +961 1 858 276

## ENGINEERING, DESIGN, MARKETING & MULTIMEDIA

### Unitech Deutschland GmbH

#### Germany

unitech.germany@ikkgroup.com

### Stuttgart

Tel : +49 711 6868 7222  
Fax: +49 711 6868 7223

### Multi-D s.a.r.l

#### Lebanon

multi-d@ikkgroup.com

### Multi-d Beirut

Tel : +961 1 841 155  
Fax: +961 1 841 156

## R&D DEPARTMENT

Saih Suhaib-3, Opp DEWA Substation, Dubai Industrial City, Dubai, UAE

Tel : +971 4 818 1944 - Mob: +971 55 517 0841

Email: unitech.uae@ikkgroup.com - abed.demachkieh@ikkgroup.com