

# ECA Polyethylene sheet

FLEXIBLE, DURABLE PLASTIC USED IN CONSTRUCTION

## DESCRIPTION

ECA Polyethylene sheet is a UV-stabilized, plastic film, is almost completely used as a damp-proof membrane with oversite concrete. It offers outstanding impact resistance, good stiffness and strength and ease of processing. ECA Polyethylene sheet is the most common vapor barrier material for concrete slabs and is very resistant to harmful chemicals. It is very useful for simple material construction and to large industrial improvisation..

## ADVANTAGES

ECA Polyethylene sheets are highly advantageous in construction due to their excellent waterproofing, durability, and flexibility. They provide effective moisture control, resist tearing and chemicals, and are cost-effective and easy to install. Their ability to protect against environmental elements and require minimal maintenance makes them a reliable choice for various construction applications.

## CHEMICAL RESISTANCE

ECA Polyethylene sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. In applications where it will come into contact with these or other aggressive chemicals, specific (application related) testing of the material is strongly recommended.

## Product Availability

Thickness (mm) ± Tolerance (10%)	Color
0.25 Covers App. 3.6 SQM per KG	several
0.3	
0.5	
1.00	
1.5	
2.00	
3.00	
4.00	

## STORAGE

ECA Polyethylene sheet should be stored away from direct sunlight and ultraviolet rays.

## Typical Properties

Property	Test Method	Value
Density	ISO 1183	(0.9-1) g/cm <sup>3</sup>
Water absorption, 24 Hours	ISO 62	0.15 %
Light Transmission	ASTM D 1003	89.5 %
Tensile Stress, Yeild	ISO 527	60 Mpa
Tensile Modulus	ISO 527	2300 Mpa
Elongation, Yeild	ISO 527	7 %
Elongation, Break	ISO 527	110 %
Flexural Strength, Yelid	ISO 178	100 Mpa
Flexural Modulus	ISO 178	2500 Mpa
Izod notched Impact, 20 °C -30 °C	ISO 180-1A	65KJ/m2 10KJ/m2
Vicat Softening Temp., Rate B/120	ISO 306	145 °C
Mold shrinkage	ISO 527	0.5-0.7%
Thermal expansion	ASTM D696	7x10-51/°C

## HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

## CONTACT

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at [techsupport@alfaihaengineering.com](mailto:techsupport@alfaihaengineering.com).

## DISCLAIMER

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