



The Chemical Company

# MASTERPREN<sup>®</sup> TGE

(Formerly known as FLAGON EP/PV)

## Synthetic membrane of TPO

### Description

MASTERPREN TGE synthetic liner of TPO modified polyolefin, in two-colour version (sand grey/black), obtained by co-extrusion, which allows it to be produced in a single layer a liner with different physical-chemical properties on the two sides. It has a 50 g/m<sup>2</sup> glass gauze inserted as dimensional stabiliser. The upper sand grey layer is characterised by an extremely high resistance to weathering and ultraviolet rays, whereas the lower black layer is resistant to puncturing.

### Typical applications

MASTERPREN TGE can be applied in the following circumstances:

- Exposed roofing laid loose
- Exposed roofing mechanically fixed
- Exposed roofing fully bonded (required a fleece backing)
- Landscaped areas and roof gardens
- May be used in underground structures and potable water structures

### Advantages

- It has superior mechanical characteristics and has an extremely high resistance to weathering and ultra violet rays
- High mechanical properties and resistance to puncturing
- Rot-proof
- Resistance to root penetration
- If double welded it allows pressure testing of joints
- Can be bonded with the Masterpren TPO Adhesive
- Good resistance to hydrocarbons and bacterial attacks

- Long life expectancy

### Packaging and roll sizes

MASTERPREN TGE is supplied in various thicknesses with 2.10 meter width and in lengths of 20 meters.

Thickness (mm)	1.2	1.5	1.8	2.0	2.5
Width (m)	2.10	2.10	2.10	2.10	2.10
Length (m)	25	20	20	20	20
Colour	Sand grey/Black				

Fire-resistant version is available on request (class B2 according to DIN 4102/1) with EP/PV-FR designation

### Application procedure

Usually applied by a Specialist Applicator. Please contact BASF Construction Chemicals for specific application assistance.

### Watertight Systems & Engineered Solutions

BASF Construction Chemicals provides systems and engineered solutions, to suit the structure, at the design and construction stages, to ensure water tightness. Various products and elements which form an integral part of a system are manufactured and approved by BASF. The following ranges of products are available;

- Masterpren range – Preformed membranes
- Masterflex range - Active and passive joint treatment
- Masterseal range - Liquid applied membranes and protective coatings
- Masterflow range - High performance grouts
- Emaco and Concrecive ranges - Repair materials

Imported & Marketed in India by:

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## \*Physical / Chemical Properties

Thickness DIN 53353	1.2mm	1.5mm	1.8mm	2.0mm	2.5mm
Specific weight (kg/m <sup>2</sup> ) DIN 53352	1.1 ± 5%	1.35 ± 5%	1.63 ± 5%	1.80 ± 5%	2.27 ± 5%
Tensile strength DIN 16726-56.1-A-VII (rectangular test specimen)	500N/5cm	600N/5cm	750N/5cm	800N/5cm	1000N/5cm
Average production value	L678 T656	L848 T831	L1018 T979	L1130 T1082	L1312 T1243
Standard deviation	L23.6 T25.8	L21.4 T20.5	L26.8 T27.2	L21.9 T26.3	L27.0 T30.2
Elongation to break DIN EN ISO 527-01 (rectangular test specimen)	550%	550%	550%	550%	≥ 550%
Average production value	L628 T645	L618 T652	L624 T641	L631 T655	L628 T665
Standard deviation	L16.5 T18.9	L12.3 T16.7	L12.8 T15.5	L16.2 T18.1	L14.3 T17.6
Tear resistance DIN 53363	130N	160N	190N	220N	270N
Puncture resistance DIN 16726-5.12	400mm	700mm	900mm	1150mm	1650mm
Cold bending DIN 53361	-35°C	-35°C	-35°C	-35°C	-35°C
Hydrostatic pressure resistance (72 hours at 2 bar) DIN 16726-5.11	waterproof	waterproof	waterproof	waterproof	waterproof
Dimensional stability after 6 hours at 80°C – DIN 16726-5.13.1	0.1%	0.1%	0.1%	0.1%	0.1%
Resistance to artificial weathering DIN 16726-5.17	no cracking	no cracking	no cracking	no cracking	no cracking
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration
Resistance to hail on rigid substrate SIA 280/9	17m/s	25m/s	25m/s	25m/s	25m/s

### Storage

Store out of direct sunlight, clear of the ground and on pallets.

### Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals representative.

BASF reserves the right to have the true cause of any liability determined by accepted test methods.

### Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational Health & Safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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**\*Properties listed are only for guidance and are not a guarantee of performance**

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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