



The Chemical Company

# MASTERPREN<sup>®</sup> TPE

(Formerly known as FLAGON EP/PR)

## Synthetic membrane of TPO

### Description

MASTERPREN TPE 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 polyester mesh reinforcement. The upper sand grey layer, which is exposed, is characterised by an extremely high resistance to weathering and ultraviolet rays, whereas the lower black layer is resistant to puncturing

### Typical applications

MASTERPREN TPE can be applied in the following circumstances:

- Exposed roofing laid loose
- Exposed roofing mechanically fixed
- Exposed roofing fully bonded (requiring 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 attack
- Long life expectancy

### Packaging and roll sizes

MASTERPREN TPE is supplied in various thicknesses and widths of 2.10 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/PR-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

Imported & Marketed in India by:  
**BASF Construction Chemicals (India) Pvt. Limited**  
C-68, MIDC Turbhe, Navi Mumbai – 400 613  
Phone: +91 22 2761 9992 Fax: 2761 9242  
e-mail: basfcc@vsnl.net [www.basf-cc.co.in](http://www.basf-cc.co.in)

# MASTERPREN<sup>®</sup> TPE

- Masterseal range - Liquid applied membranes and protective coatings
- Masterflow range - High performance grouts
- Emaco and Concrecive ranges - Repair materials

## Physical / Chemical Properties

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

Thickness DIN 53353	1.2mm	1.5mm	1.8mm	2.0mm	2.5mm
Specific weight DIN 53352	1.1 ± 5%	1.35 ± 5%	1.63 ± 5%	1.80 ± 5%	2.27 ± 5%
Tensile strength DIN 16726-5.6.1-C-VI (rectangular test specimen)	≥ 10N/5cm	≥ 10N/5cm	≥ 10N/5cm	≥ 10N/5cm	≥ 10N/5cm
Average production value	L1286 T1195	L1305 T1234	L1278 T1212	L1318 T1254	L1332 T1248
Standard deviation	L15.3 T10.2	L18.6 T12.3	L16.7 T10.1	L20.1 T12.5	L17.3 T13.2
Elongation to break DIN 16726-5.6.1-C-VI (rectangular test specimen)	15	15	15	15	15
Average production value	L25 T25	L25 T25	L25 T25	L25 T25	L25 T25
Standard deviation	L0.5 T0.5	L0.43 T0.5	L0.5 T0.5	L0.5 T0.5	L0.5 T0.5
Puncture resistance DIN 16726-5.12	≥400	≥700	≥900	≥1150	≥1650
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
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
Dimensional stability after 6 hours at 80°C – DIN 16726-5.13.1	0.5%	0.5%	0.5%	0.5%	0.5%
Tear Resistance DIN 53363	300N	300N	300N	300N	300N

### 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.

01/2007 BASF\_CC-UAE

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

#### BASF Construction Chemicals UAE LLC

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

www.basf-cc.ae

Fax: +971 4 8851002

e-mail: marketingcc.mideast@basf.com



Certificate No.  
963680



Certificate No.  
945787



Certificate No.  
772556