

# MasterSeal<sup>®</sup> 750TPE

## Synthetic membrane of TPO

### DESCRIPTION

**MasterSeal 750TPE** synthetic membrane 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

**MasterSeal 750TPE** can be applied in the following circumstances:

- Mechanically fixed exposed roofing

### ADVANTAGES

- An extremely high resistance to weathering and ultra violet rays
- High mechanical properties and resistance to puncturing
- If double welded, it allows pressure testing of joints

- Long life expectancy
- Excellent low temperature flexibility
- Non-toxic and ecological
- Compatible with most thermal insulation products
- Excellent weldability

### PACKAGING AND ROLL SIZES

**MasterSeal 750TPE** is supplied in various thicknesses and widths of 2.10 meters.

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

Fire-resistant version is available on request (class B2 according to DIN 4102/1)

### APPLICATION GUIDELINES

Usually applied by a Specialist Applicator. Please contact Master Builders Solutions Construction Chemicals for specific application assistance.

### PHYSICAL/CHEMICAL PROPERTIES\*

	1.2mm	1.5mm	1.8mm	2.0mm
Thickness UNI EN 1849 - 2	1.2mm	1.5mm	1.8mm	2.0mm
Specific weight UNI EN 1849 - 2	1.15 kg/m <sup>2</sup>	1.40 kg/m <sup>2</sup>	1.68 kg/m <sup>2</sup>	1.85 kg/m <sup>2</sup>
Tensile strength UNI EN 12311 - 2	≥ 1100 N/5 cm	≥ 1100 N/5 cm	≥ 1100 N/5 cm	≥ 1100 N/5 cm
Elongation to break UNI EN 12311 - 2	≥ 15 %	≥ 15 %	≥ 15 %	≥ 15 %
Resistance to impact UNI EN 12691	≥ 450 mm	≥ 800 mm	≥ 900 mm	≥ 1250 mm
Cold bending UNI EN 495 - 5	≤ - 40°C	≤ - 40°C	≤ - 40°C	≤ - 40°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 met B	waterproof	waterproof	waterproof	waterproof
Resistance to artificial weathering UNI EN 1297	no surface cracking	no surface cracking	no surface cracking	no surface cracking
Dimensional stability after 6 hours at 80°C – UNI EN 1107 - 2	≤ 0.5 %	≤ 0.5 %	≤ 0.5 %	≤ 0.5 %
Tear Resistance UNI EN 12310 - 2	≥ 300 N	≥ 300 N	≥ 300 N	≥ 300 N
Thermal ageing in air after 168 d at 70°C Cold bending UNI EN 1296	≤ - 40°C	≤ - 40°C	≤ - 40°C	≤ - 40°C
Resistance to static punching UNI EN 12730	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg

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## STORAGE

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

## QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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