

# MasterSeal® 957

Superior needle punched, non-woven, polypropylene geotextile

## DESCRIPTION

**MasterSeal 957** is a needle punched, non-woven, polypropylene geotextile for use as a cushion layer with PVC / TPO sub-grade waterproofing systems.

## COMPOSITION

100% polypropylene non-woven geotextile.

## USES

- Roads
- Railways
- Foundations & retaining walls
- Drainage systems
- Erosion control systems
- Reservoirs & dams
- Canals
- Tunnels and underground structures
- Solids waste
- Liquid waste

## TYPICAL APPLICATIONS

- Cushion and separation layer between shoring/blinding and PVC / TPO membrane waterproofing.
- Slip layer ensuring reduced friction between concrete and PVC / TPO membranes.

## ADVANTAGES

- Provides protection to PVC / TPO membranes
- Allows PVC / TPO membranes to move independently from the structure
- Good tensile and elongation properties

## PACKAGING & ROLL SIZES

**MasterSeal 957** supplied in rolls as follows:

Weight	Width	Length
370g/m <sup>2</sup>	6m	50m
450g/m <sup>2</sup>	6m	75m

## TYPICAL PROPERTIES\*

Mechanical properties	Test method	Value 370g/m <sup>2</sup>	Value 450g/m <sup>2</sup>
Tensile strength - Machine Direction / Transverse Direction	EN ISO 10319	27 kN/m	33.5 kN/m
Elongation - Machine Direction / Transverse Direction	EN ISO 10319	50% 55%	55% 60%
CBR puncture resistance	EN ISO 12236	4.6 kN	5.5 kN
Dynamic cone drop	EN ISO 13433	10 mm	7 mm
Pyramid puncture	EN ISO 14574	0.44 kN	0.55 kN
<b>Hydraulic properties</b>			
Permeability	EN ISO 11058	55x10 <sup>-3</sup> m/s	45x10 <sup>-3</sup> m/s
Waterflow normal to the plane	EN ISO 11058	55 l/m <sup>2</sup> .s	45 l/m <sup>2</sup> .s
Waterflow in the plane 20kPa	EN ISO 12958	5x10 <sup>-6</sup> m <sup>2</sup> /s	6x10 <sup>-6</sup> m <sup>2</sup> /s
Characteristics opening size	EN ISO 12956	85 µm	75 µm
<b>Physical properties</b>			
Thickness under 2kPa	EN ISO 9863-1	2.8 mm	3.2 mm
Weight	EN ISO 9864	370 g/m <sup>2</sup>	450 g/m <sup>2</sup>
<b>Durability</b>			
Natural UV light	ASTM 4533	100%	100%
Chemical resistance	EN 14030	100%	100%
Oxidation resistance	EN ISO 13438	>90%	>90%
Microbiological resistance	EN 12225	100%	100%
Hydrolysis	EN 12447	100%	100%
Density		0.91 kg/dm <sup>3</sup>	0.91 kg/dm <sup>3</sup>
Melting point		165°C	165°C
Fiber bonding		Mechanical / Thermal	Mechanical / Thermal

# MasterSeal<sup>®</sup> 957

## 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.

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### STATEMENT OF

### RESPONSIBILITY

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