



# MAPAL PLASTICS

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## Technical Product Information

- Product:** WHITE TROUGHS & DRAINAGE GUTTERS UV PROTECTED FOR SOILLESS GROWING TECHNOLOGY
- Code name:** UHG (White + UV)
- Product Description:** Troughs and drainage gutters with optional folding lines and drainage holes
- Applications:** Equipment for soilless cultivation of vegetables, roses, cut flowers, herbs and grow bag systems
- UV Resistance:** 5 year warranty

### 1. Maplon FR & AS sheets technical properties.

Test	Conditions	Result
<b>Tensile properties (ASTM D638)</b>		
Tensile strength at yield*	MD 23 °C	21 N/mm <sup>2</sup>
	TD	19 N/mm <sup>2</sup>
Tensile strain at yield*	MD 23 °C	18%
	TD	14%
Young's modulus*	MD/TD 23 °C	300 N/mm <sup>2</sup>
Tear resistance (Mapal internal)*	Max strength	> 80 N/mm <sup>2</sup>
Izod impact (ASTM D256)**	23 °C	110 J/m
<b>Thermal properties</b>		
Vicat softening point (ASTM D1525)		145 °C
Heat distortion Temp. (ASTM D648)		85 °C
Specific gravity		~0.91 gr/cm <sup>3</sup>

\* Tests were made on 0.7 mm thick sheets.

\*\* Tests were made on 3.2 mm thick sheets.

### 2. Maplon sheets production specification.

Sheet Characteristics	Value	Production Tolerance
Thickness	0.5 mm – 1.2 mm	+0.01 mm -0.03 mm
Width	Max width of 1700 mm	-1 / +5 mm
Embossing	Mapal Embossing	
Color	White	
Standard Configuration	Rolls	

The troughs are available in different thickness, width and length; the location of the creases and drainage holes can be modified to customers' specifications.

The information given in this publication is true and accurate to the best of our knowledge. The numeric values presented are typical values obtained by testing laboratory samples. This publication is not intended as a legally binding assurance, since many factors may affect product properties during processing. The users should perform their own tests in order to ascertain the suitability to a specific application. Also, it is the users' responsibility to ensure that their specific use does not constitute an infringement of any patent or law.