



# Technical Data Sheet

## MAPLON Polypropylene Total Opaque Sheet

**Product Description:** A multipurpose PP Total Opaque and 100% recyclable sheet specially designed for printing.

The PP Total Opaque sheet has a shelf life of 18 months for printing and gluing purposes. (MAPAL guarantees the corona treatment value- surface tension- for 18 months from production date).

Our products are UV resistant so they can be used for Outdoor applications. This type of sheet has a standard one year Outdoor Warranty against yellowing, discoloring or fading. For custom programs, we have the ability to extend our Outdoor Warranty up to 5 years, if discussed in advance.

**Applications:** Offset, Silk Screen printing, UV digital printing as well as packaging.

**Approvals:** The MAPLON PP Total Opaque sheets comply with European Directive 2011/65/EU (RoHS 2) and European Regulation 1907/2006 (REACH Review 2017) and FDA 21 CFR 177.1520.

### 1. Technical Properties

Test	Conditions	Result
<b>Tensile properties (ASTM D638)</b>		
Tensile strength at yield*	MD 23°C	26 N/mm <sup>2</sup>
	TD	23 N/mm <sup>2</sup>
Tensile strain at yield*	MD 23°C	16%
	TD	11%
Young's modulus*	MD/TD 23°C	350/340 N/mm <sup>2</sup>
<b>Thermal properties</b>		
Vicat softening point (ASTM D1525)		145°C
Heat distortion Temp. (ASTM D648)		85°C
Specific gravity		1.0 gr/cm <sup>3</sup>
Surface Energy		Min. 42 dynes/cm

\* Tests were made on 0.300 mm thick sheets.

### 2. Production Specifications

Sheet Dimensions	Value	Tolerances
Thickness	0.22 – 0.35 mm   0.4 – 1,2 mm	+ 0.03 / - 0.03 mm
Width	Max. 1520 mm   Max. 1600 mm	0/+7 mm
Length	Max. 3000 mm	0/+7 mm
LT	0 %	0 - 0.1%
Embossing	Satin/Satin	
Color	White 055	
Standard Configuration	Sheets	

### 3. Storage

The material must be stored in a dry shaded place, at a recommended temperature of 5° C up to 30° C and 20° C up to 25° C at least 24 hours before printing or other processing of the sheets.

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.

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