

# 1.2MM POLYPROPYLENE - PP TECHNICAL DATA SHEET



Polypropylene (PP) is made of carbon and hydrogen. The source of the raw material is the light fraction of gas (Naphta) that is emitted from the petroleum refining process. Today this gas is transformed to ethylene and propylene used for producing polymers such as Polypropylene (PP) and Polyethylene (PE) during polymerization process.

The production processes transform the PP resins into final products in a clean and safe way. No emission and drainage are created during the production process. The sheets are produced in an extrusion process that requires a relatively small amount of energy.

When PP reacts with air (like at very high Temp. or during a fire event) the combustion products are: Water, CO and CO<sub>2</sub>, there is no emission of dangerous ingredients such as Hydrochloride - acid, Chlorine Styrene etc like in case of other polymers such as PVC.

Since PP is one of the most commonly used plastic, it is easy to find an application for recycled material.

**PP waste is 100% recyclable** and also post-consumer and post-industrial PP can be easily collected and reused.

**Product:** PP Clear, White, Color Sheets

**Product Description:** Specially designed for printing. The PP sheet has a shelf life of one year

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

**Approvals:** The PP white and clear sheets comply with European Directive 2002/95/ EC (RoHS), Directive 2002/72/EC for food contact and Directive 1907/2006 (REACH). Compliance of color sheets must be checked individually.

## PA sheets technical properties

Test	Conditions	Result
<b>Tensile properties (ASTM D638)</b>		
Tensile strength at yield*	MD 23 °C TD	30 N/mm <sup>2</sup> 27 N/mm <sup>2</sup>
Tensile strain at yield*	MD 23 TD	25% 20%
Young's modulus*	MD/TD 23 °C	300N/mm <sup>2</sup>
<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>
Surface Energy		min. 42 dynes/cm

\* Tests were made on 0.7 mm thick sheets.

## PA sheets production specification

Sheet Dimensions	Value	Tolerances
Thickness	0,2mm - 2mm	+/- 0.03mm
Width	MAX. 1250mm	0/+5
Length	MAX. 3500mm	0/+8
Light Transmission	12%	10 - 14%
Angle 90°	90°	89.8 - 90.2°
Standard Configuration	Sheets	

## Storage:

The material must be stored in a dry shaded place, at a recommended temp. of 20 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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