



MAPAL PLASTIC PRODUCTS

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Maplon polypropylene sheet type "K" 500 μ OPAQLON COO1 Technical Specification.
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No 520073 Rev.0

Maplon Catalog No. L050-C001K0101 is extremely opaque white sheet.
Sheet surface is smoothly embossed with similar finish on both sides..

Main advantages are:

High opacity. High rigidity high thermal and chemical resistance
Good weather resistance. No yellowing after exposure to light.
Good print-ability in all printing methods: offset UV and conventional, screen UV and solvent based

Main disadvantages.

Due to sheet hardness it requires high pressure in die cutting.
Material is not recommended for box production.

1. Physical Properties

Test	Conditions	Result
Tensile properties (ASTM D638)		
Tensile strength at yield	MD 23 Deg.C° TD	37 N/mm ² 36 N/mm ²
Tensile strain at yield	MD 23 Deg.C° TD	15% 12%
Young's modulus	MD/TD 23 Deg.C°	570 N/mm ²
Strain at break	MD 23 Deg.C° TD	50% 16%
Thermal properties		
Vicat softening point (ASTM D1525)		155 Deg.C°
Heat distortion Temp. (ASTM D648)		110 Deg.C°
Tear resistance Mapal internal	Max strength.	230 N/mm.
Hardness Shore D ISO/R 868		72
Opacity	Measured in daylight	lower then 0.5%
Specific gravity		~0.96gr/cm ³
Surface Tension: Corona treated on both sides	After 2 month from production in the original packeging	Minimum 48 dyn/cm

Tests were made on 500 μ thick sheet.

2. Production Specification.

	Production Tolerance	Remark
Thickness. 500 μ	$\pm 20 \mu$	
Dimensions Max width 1500 mm. Max length	+0-+5 from nominal on order 3000 mm.	Deviations in the pallet are: MD is approx. 1.5mm. TD approx. 1 mm .
Color	Bright white	
Surface Embossing	Sang / Sand	

3. limitations in Use.

Storage:

Sheets are sensitive to heat so must be stored in cool dry place MAX 25 C° otherwise surface treatment adversely affected.

Printing:

Printing test shell be made to assure that printing method is suitable for the application.