



Maplon sheet type "3G" Technical Specification.

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Product description: Maplon type "3G" is a single layer highly polished clear sheets, with anti-blocking properties.

1. Physical Properties:

Test	Conditions	Result
Tensile properties (ASTM D638)		
Tensile strength at yield (23 Deg. °C)	MD TD	30 N/mm ² 29 N/mm ²
Tensile strain at yield (23 Deg. °C)	MD TD	24% 23%
Young's modulus (23 Deg. °C)	MD/TD	280 N/mm ²
Strain at break (23 Deg. °C)	MD TD	>600% >600%
Thermal properties		
Vicat softening point (ASTM D1525)		136 Deg. °C
Heat distortion Temp. (ASTM D648)		79 Deg. °C
Tear resistance Max strength.	Mapal internal	130 N/mm.
Clarity (ASTM 1003 1044)	Depends on thickness.	> 98
Haze	Values are on 500 μ thick sheet	< 11
Gloss (ASTM D523)	Measured at 60 °C	> 110
Specific gravity		~0.90gr/cm ³
Surface Tension	Minimum 48 dyn/cm	After 2 month from production
Color	Transparent slightly yellow in bulk.	

Tests were made on 500-μ thick sheets.

2. Production Specification.

	Production Tolerance	Remark
Thickness. 300-700 μ	±30 μ	
Dimensions Max width 1500 mm.	+0-+8 from nominal on order	Deviations in the pallet are: MD is approx. 5mm. TD approx. 1 mm .
Surface	Gloss / Gloss	

Main advantages are:

High clarity and low haze. Easy to convert due to reduced blocking. High durability. Water and chemical resistance. High heat resistance. Unlimited flex life of integral hinge. Suitable to offset printing with UV or Oxidation inks and can use when food contact needed.

Main disadvantages.

Low scratch resistance.

3. Limitations in Use.

Storage:

Sheets must be stored in cool dry place at Max 25 °C otherwise blooming and surface contamination may occur. Surface tension may drop rapidly if exposed to heat. The pallet should not pack one on each other to prevent blocking.