



MAPAL PLASTICS
 MEVO HAMMA, 12934, ISRAEL
 TEL :972 4 6764755 FAX : 972 4 6764756
<http://www.mapalplastics.com> Email:mapal@mapalplastics.com



Maplon type "D" Technical Specification.

No 520079 Rev.0 11/2005

1. Physical Properties

Test	Conditions	Result
Tensile properties (ASTM D638)		
Tensile strength at yield	MD 23 Deg.C° TD	30 N/mm ² 29 N/mm ²
Tensile strain at yield	MD 23 Deg.C° TD	24% 23%
Young's modulus	MD/TD 23 Deg.C°	280 N/mm ²
Strain at break	MD 23 Deg.C° 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 method.	130 N/mm.
Specific gravity		~0.91gr/cm ³
Surface Tension		Minimum 48 dyn/cm (After 2 month from production)

Tests were made on 500-μ **thick** sheets.

2. Production Specification.

	Production Tolerance	Remark
Thickness. 0.5-2.0mm	±0.03mm	
Dimensions Max width 1250 mm.	+0-+8mm from nominal on order	Deviations in the pallet are: MD is approx. 5mm. TD approx. 1 mm.
Color	Transparent slightly yellow in bulk.	Any other color possible
Embossing	Diagonal / Gloss	A single layer polished clear Polypropylene sheet. One side embossed with fine lines 45° to machine direction.
	Gloss/sand, Gloss/Orange	

Main advantages:

High clarity and medium haze. High durability. Water and chemical resistance. High heat resistance. Unlimited flex life of integral hinge. Easy to convert.

Main disadvantages.

Low scratch resistance.

Printing:

Suitable for off set and screen-printing. With offset printing, best results are achieved when sheets are printed immediately after production

3. Limitations in Use.

Storage:

Sheets are sensitive to heat so must be stored in cool dry place MAX 25 C° otherwise blooming and surface contamination may occur. Surface tension may drop rapidly if exposed to heat.