



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



1. Maplon sheets type "H" technical specification.

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Test	Conditions	Result
Tensile properties (ASTM D638)		
Tensile strength at yield	MD 23 °C TD	29 N/mm ² 25 N/mm ²
Tensile strain at yield	MD 23 °C TD	18% 14%
Young's modulus	MD/TD 23 °C	400 N/mm ²
Strain at break	MD 23 °C TD	>200% >100%
Dart falling Impact. (ASTM D1709-85)	23 °C 0 °C -20 °C	6 J 5.5 J 2 J
Izod impact (ASTM D256)	23 °C 0 °C	500 J/m 300 J/m
Thermal properties		
Vicat softening point(ASTM D1525)		145 °C
Heat distortion Temp.(ASTM D648)		85 °C
Specific gravity		~0.91 gr/cm ³
Color		Mapal Color Catalogue No.520002
Surface Tension(up to 6 months)	Minimum 48 dyn/cm	Special grade can be treated for more than year for offset printing.

- Tests were made on 1mm thick sheets.
- sample 3.2mm thick

2. Maplon sheets production specification.

Sheet Dimensions	Production Tolerance	Reference
Thickness	+0.02 mm -0.05 mm	
Min.	0.35 mm	
Max.	5 mm	
Max width	+7.0 mm - 0.0 mm	
max length	1600 (not for all the thickness) 2500	
Embossing		Mapal Embossing Catalogue No.520009

Properties :

Good resistance to low temperatures.
 Moderate stress whitening.
 Suitable for die cutting.
 Corona treated on both sides for offset and screen printing.

Applications :

Stationery ,printing and packaging products.
 Industrial applications where low temperature resistance is required.