

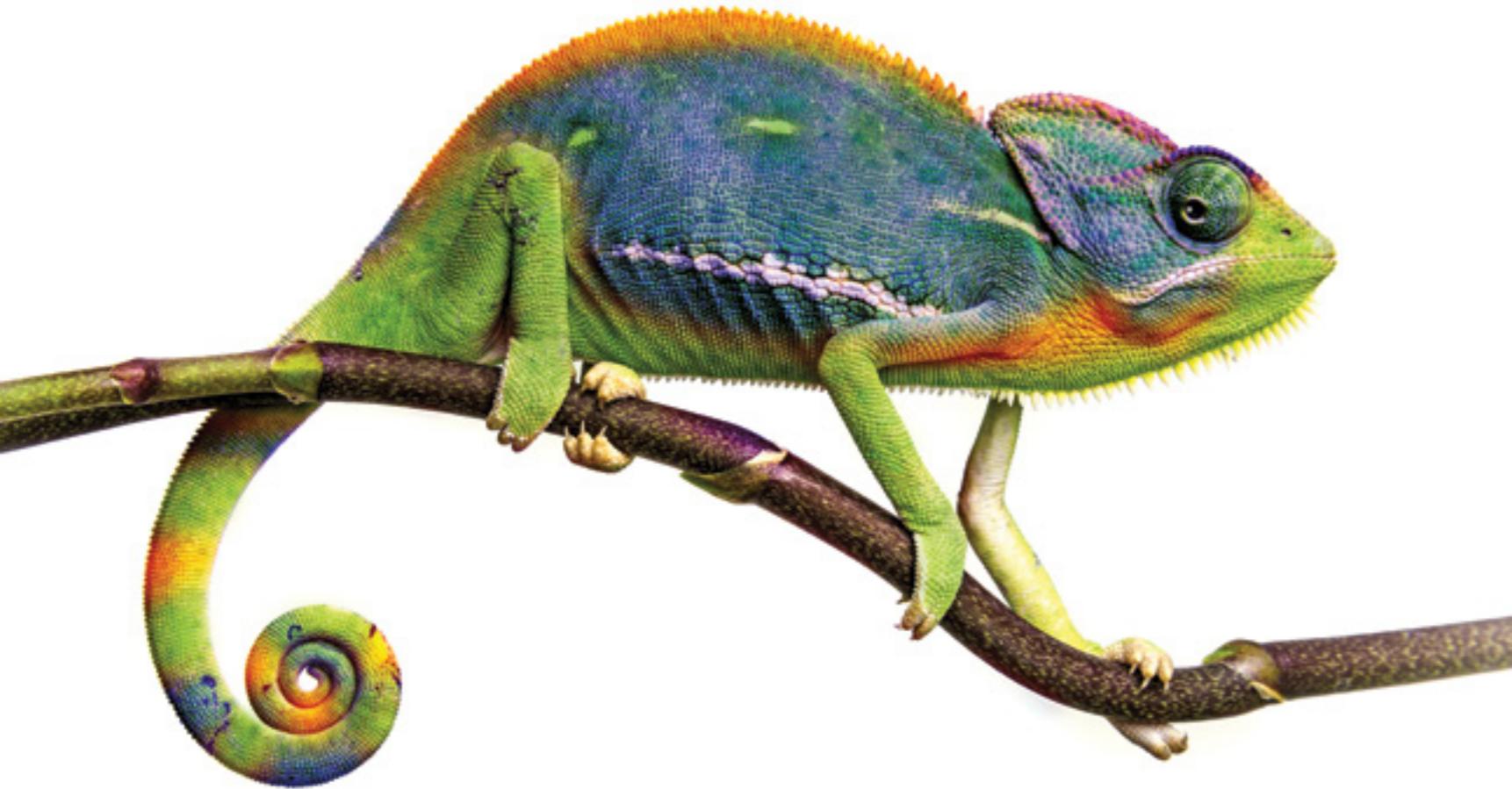


mapal

The Art of Polypropylene



This catalog was printed on MPDI 2.
Maplon® substrate for HP Indigo,
by HP Indigo 7500 Digital Press.



Company **Profile**

mapal is a manufacturer of high quality Polyolefin sheets for a wide and diverse range of market segments. The company was founded in 1985 and joined **Plazit-Polygal Group** during 2007.

At **mapal** we are mastering the Art of Polypropylene sheets combined with innovative developments to support the market future demand.

mapal is ISO 9001 certified and prides itself with high quality products and excellent service.

We strive to minimize the carbon footprint of our production process, while ensuring the high quality of our products.





Application **Segments:**



Printing & Graphics



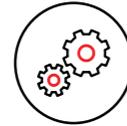
Sign & Display



Stationery & Office Products



Packaging



Technical & Thermoforming



Agriculture

For more details: www.mapalagro.com

Global Presence

For many years world wide customers are showing their faith and satisfaction with mapal as a stable and reliable manufacturer.



AUSTRIA
CZECH REPUBLIC
FRANCE
GERMANY
HUNGARY
ITALY
NETHERLANDS

POLAND
ROMANIA
RUSSIA
SPAIN / PORTUGAL
SWEDEN
TURKEY
UK

SOUTH AFRICA
CANADA
NORTH AMERICA
SOUTH AMERICA
AUSTRALIA
NEW ZEALAND

For further information, please visit mapal web site: www.mapalplastics.com

Maplon® Sheets **For Printing**

Maplon® sheets are designed to be used in various technologies in the printing industry, including screen printing, offset and digital. The Maplon® can be supplied as cut-to-size sheets or rolls in various surface finishes combinations and sizes. All sheets and rolls are corona treated on both sides with **1 year guarantee**.

Maplon® sheets are used in the signage, POP, POS, labels, flower tags, packaging, stationery and other applications.

Our polypropylene sheets are specially manufactured to allow excellent ink adhesion which provides a cost-effective alternative to other plastics and substrates.

- Thickness range: 180 to 3,500 microns / .007 to .140"
- Maximum width: 1,600mm / 63" (depends on thickness)
- Colors: Clear, whites and various standard colors and opacities
- Standard embossing options: Satin/Satin, Sand/Satin, Sand/Sand, Sand/Orange, Gloss/Gloss, Gloss/Diagonal

Main Benefits

- Enhanced ink adhesion & low ink consumption
- 100% Waterproof
- Wide range of printing methods
- Bright white
- High chemical resistance
- 100% Recyclable
- UV resistant



Our products are UV resistant so they can be used for Outdoor applications.

White and black sheets have a standard one year Outdoor Warranty against yellowing, discoloring or fading.

For custom programs, we have the ability to extend our Outdoor Warranty up to 5 years, if discussed in advance

Maplon® Sheets **Sizes**

Type	S.G. (gr/cm³)	Thickness (mm/inch)	Max Width (mm/inch)	Max Length (mm/inch)
PP	0.91 - 1.0	0.18 - 0.21mm / .007 - .008" 0.22 - 0.30mm / .009 - .014" 0.40 - 2.00mm / .016 - .080"	1100mm / 43" 1520mm / 60" 1600mm / 63"	2000mm / 79" 3500mm / 138" 3500mm / 138"
HDPE	0.96 - 1.0	0.45 - 1.00mm / .018 - .040"	1250mm / 49"	1000mm / 39"
PP Foam	0.60	1.50 - 3.50	1220mm / 48"	2440mm / 98"

General Notes:

- Gloss/Gloss, 0.30 - 1.10, max size 1140x1500mm
- Smaller or other sizes should be advised prior to order
- 0.18 - 0.21 and 0.22 - 0.35 embossing sand/satin and satin/satin only

Sheet Surface Roughness (Ra):

(Ra)	Embossing
0.03 - 0.09	Gloss
0.6 - 1.1	Satin
3.0 - 4.5	Sand
5.0 - 7.5	Orange
10 - 13	Rough Orange



Maplon® Rolls Sizes

Type	S.G. (gr/cm ³)	Thickness (mm/inch)	Max Width (mm/inch)	Out Max Diameter (mm/inch)
PP	0.91 - 1.0	0.18 - 0.21mm / .007 - .008"	1100mm / 43"	600mm / 24"
		0.22 - 0.35mm / .009 - .014"	1370mm / 54"	600mm / 24"
		0.40 - 1.20mm / .016 - .047"	1500mm / 59"	600mm / 24"
HDPE	0.96 - 1.0	0.45 - 1.00mm / .018 - .040"	1150mm / 45"	600mm / 24"

General Notes:

- Gloss/Gloss, 0.40 - 0.80mm / .016 - .032", max width 1100mm / 43"
- Smaller or other sizes should be advised prior to order
- Thickness 0.18 - 0.21mm / .007 - .008" depend on application
- 0.18 - 0.21mm / .007 - .008" and 0.22 - 0.34mm / .009 - .013" embossing Satin/Satin and Sand/Satin available
- Core diameter standard 6" and 3"



Product group	Color	Color Code	Light Transmission (LT%)	Thickness (mm/inch)	SG (gr/cm ³)	Most common Embossing's						Max Width (mm/inch)		
						Satin/Satin	Sand/Satin	Sand/Sand	Sand/Orange	Gloss/Gloss	Gloss/Diagonal			
Maplon® Solid	White Total Opaque	055	0	0.22 - 0.35mm / .009 - .014"	1.00		+	+					1520mm / 60"	
				0.40 - 1.20mm / .016 - .050"			+	+	+				1600mm / 63"	
	White Opaque	050 053 055	1 - 3	0.40 - 1.80mm / .016 - .070"	1.00		+	+					1600mm / 63"	
	White semi opaque	050 051 053 055 058	8 - 12	0.18 - 0.21mm / .007 - .008"	1.00		+	+						1100mm / 43"
				0.22 - 0.35mm / .009 - .014"	0.96		+	+						1520mm / 60"
				0.40 - 1.80mm / .016 - .070"	0.93		+	+	+	+				1600mm / 61"
	White standard	050 051 053 055 058	20 - 26 and up	0.18 - 0.21mm / .007 - .008"	0.93		+	+						1100mm / 43"
				0.22 - 0.35mm / .009 - .014"	0.92		+	+						1520mm / 60"
				0.40 - 1.80mm / .016 - .070"	0.91		+	+	+	+				1600mm / 61"
	Natural Black Other colors			0.18 - 0.21mm / .007 - .008"	0.91		+	+						1100mm / 43"
				0.22 - 0.35mm / .009 - .014"			+	+						1520mm / 60"
				0.40 - 1.80mm / .016 - .070"			+	+	+	+				1600mm / 61"
	Clear & Transparent colors			0.30 - 0.65mm / .012 - .025"	0.91						+			1140mm / 45"
				0.65 - 1.10mm / .025 - .043"							+			1250mm / 49"
0.40 - 1.20mm / .016 - .047"											+		1170mm / 46"	
Backlit	053D	40 - 60	0.22 - 0.35mm / .009 - .014"	0.91		+	+						1520mm / 60"	
			0.40 - 1.20mm / .016 - .047"			+	+	+	+				1520mm / 60"	
Roll-up substrate	C087	0	0.22mm / .009"	1.00		+	+						1520mm / 60"	
PolyCraft®	White	055 050	0	1.5 - 3.5mm	0.60				+				1220mm / 48"	
	Black	0900	0	1.5 - 3.5mm	0.60				+				1220mm / 48"	

Thickness 1.8-3mm/.070-.120" color Natural, white, black and colors embossing: Sand/Orange, Satin/Sand, Gloss/Sand, Max width 1250mm/49", MOQ 5T.

Maplon® MPDI – For HP Indigo

Maplon® Digital presents special coated synthetic sheets certified for HP Indigo presses.

The MPDI sheets present outstanding quality surface finish in various styles, colors and sizes. This allows superior ink adhesion and excellent print quality which makes it ideal for wide range applications.

Thickness range: 220 to 600 microns.
All range of sizes for HP Indigo are available.

Colors: Natural Clear, White 050 (bright white), 053, 055 (Total Opaque), (other standard colors available).

Embossing: Satin/Satin, Gloss/Sand, Satin/Sand.

Main Benefits

- 100% Waterproof
- Dimensionally stable
- High chemical resistance
- Tear-resistant
- Top coating not required prior to printing
- 100% Recyclable



Maplon® MPDI – Sizes

Code	Size (mm/inch)	Series	Thickness (microns/inch)	Weight (gr/m ²)	Packaging (sheets/pack)
MPDI 1 / MPDI 2	320x450mm	1, 2, 3	220 microns / 0.009"	220	250
			350 microns / 0.014"	332	200
			600 microns / 0.024"	552	100
MPDI 1 / MPDI 2	320x460mm 12x18"	1, 2, 3	220 microns / 0.009"	220	250
			350 microns / 0.014"	332	200
			600 microns / 0.024"	552	100
MPDI 1 / MPDI 2	330x482mm 13x19"	1, 2, 3	220 microns / 0.009"	220	250
			350 microns / 0.014"	332	200
			600 microns / 0.024"	552	100
MPDI 1 / MPDI 2	530x750mm 20.8125x29.5"	4	220 microns / 0.009"	220	100
			350 microns / 0.014"	332	100
			600 microns / 0.024"	552	100

Other options available.

Printing machines should be capable to print One-Shot.

MPDI 1 - presents one side coating.
MPDI 2 - presents two sides coating.

Sheet Surface Roughness (Ra):

(Ra)	Embossing
0.03 - 0.09	Gloss
0.6 - 1.1	Satin

Digital Printing Compatibility Table

Printer Type	Grade	Comments
HP SCITEX		
HP SCITEX FB11000	***	Ink HDR250 ***, Ink HDR245 **
HP SCITEX FB10000	***	Ink HDR250 ***, Ink HDR245 **
HP FB7600	**	
HP - Indigo		
HP Indigo 5000 - 30000	***	series 2-3: coated 1 or 2 sides, series 4 un coated
EFI		
EFI Matan iQ	***	
EFI Matan 8Q	***	
EFI Matan 8QW	***	
EFI Matan Flex	***	
EFI Matan Quantum	***	
EFI Matan Quantum Flex	***	
EFI VUTEK H1625 LED	***	
VUTEK LX3 Pro	***	
VUTEK HS125Pro	**	on test
VUTEK H1625 LED	**	best results with Marabu Primer P2, 8 Leds
VUTEK GS3250LX Pro-12	**	
H2000 UD 7 pico	**	
FUJIFilm		
UViStar2	***	
UViStar-Pro8	***	
UViStar-Pro8W	***	
Acuity Advance Select	***	recomended ink: KA, energy: 5 to 7
ROLAND		

Printer Type	Grade	Comments
VERSA UV LEF 12	**	
VERSA UV LEF 20	**	
VERSA UV LEJ 640 FT	**	
VERSA UV LEJ HYBRID FLAT BED	**	
VERSA UV LEC 330	**	
DURST		
RHO 800	**	Best results at high energy
RHO 1000	***	
RHO P10 250	***	
Oce Arizona		
Oce Arizona 360 GT	**	Ink 256, needs 72h curing time.
Oce Arizona 660 GT	**	Ink 256 = * Ink 257 = ** Ink 258 = ***
AGFA		
Agfa Titan	***	G5 ***
Agfa Mira	***	profile for Agfa Mira available per request
AURORA	**	G3 **
MIMAKI		
JFX200-2513	***	Best adhesion Ink LH-100, Excellent visibility US120 & 150
UJF-3042	***	
GANDY DIGITAL		
Domin8tor 2*3m	***	
SCREEN		
True Press W3200 UV	***	Ink SI
OTHERS		
M-Press Tiger 104" x 65"	*	

*** Excellent ** Good * Fair



Maplon® Color Spectrum



* The colors on this card serve as a color guide only! There may be differences in the tone and shade obtained.

PolyCraft®

mapal has developed a new & 100% Recyclable Foam Polypropylene sheet, called PolyCraft. This innovative sheet is the perfect media for printed signage and point-of-sale advertising.

PolyCraft® is UV-resistant and comes with a standard 1-year "Outdoor Warranty" against yellowing or discoloring, making it great for both Indoor & Outdoor applications. The substrate is flexible while also being rigid, which is a very unique characteristic in plastics.

PolyCraft® is also resistant to breaking, denting, scratching, heat and chemicals plus it is 100% opaque. The best part is, PolyCraft is priced competitively against other NON-Recyclable products!

PolyCraft® can be supplied in wide format sheets – up to 1.22 meters (48") wide and 3.05 meters (120") long. This unique new substrate currently comes in thicknesses ranging from 1.8mm to 3.5mm, which makes it ideal for either Screen or UV Digital printing.

Main Features

- 100% Recyclable
- Highly durable & chemical resistant
- Resistant to:
 - Denting & scratching
 - Weather & UV
 - Chemicals
- Up to 30% reduction in ink consumption
- Corona Treated & comes with 1-year "Dyne-Level Guarantee"
- Easily fabricates with all standard methods, including Laser Cutting



White and black sheets have a standard one-year Outdoor Warranty against yellowing, discoloring or fading. For custom programs, we have the ability to extend our Outdoor Warranty up to 5 years, if discussed in advance.

More Colors will be available soon and Custom Color matching can be easily performed. All of this, makes PolyCraft the NEXT great substrate for the Printing & Display industry!



Finished Products:

mapal offers products in a variety of non-fading colors and shapes made with recycled Polypropylene which are highly durable, water and chemical resistant, easy to clean, Non-toxic and odorless.

Among our products you can find:

Chairmats

Durable Scratch Resistant surface polypropylene mats for surface protection in offices and homes. Made with a Non-slip underside for parquet floors and cleated underside for carpets. Our Chairmats are compatible with floor heating systems. Available in various shapes and in folding options.

Use	Length (cm/inch)	Width (cm/inch)	Thickness (mm/inch)
Parquet floor	120cm / 47"	75cm / 30"	1.6mm / 0.063"
Carpets	120cm / 47"	75cm / 30"	2.4mm / 0.094"
Parquet floor	120cm / 47"	90cm / 35"	1.6mm / 0.063"
Carpets	120cm / 47"	90cm / 35"	2.4mm / 0.094"

Deskmats

Durable Scratch Resistant surface texture polypropylene mats for the office and home with a Non-slip underside.

	Length (cm/inch)	Width (cm/inch)	Thickness (mm/inch)
Standard Size	65cm / 25.6"	50cm / 19.7"	0.75mm / 0.03"

Roll-up substrate

Maplon® co-extruded sheets White/Grey ,total opaque, with a fine finish of Satin/Satin. Suitable for similar sign & display application.

Stationery

Sheets for the stationery world.

Backlit

Maplon® sheets White opal are suitable to be used as Backlit substrate, presenting optimal combination of required light transmission and diffusion.

Flower Tags

Maplon® PP and HDPE sheets are commonly used in the Flower-Tags industry when supply as cut-to-size sheets or rolls.

Slip-sheet

mapal slip-sheets are revolutionizing the product handling industry as an alternative to wood and plastic pallets. By helping the movement of product loads, they remove the need for bulky pallets, freeing up the storage space that pallets take up, and they save cost.

Anti Slip

Durable Scratch Resistant surface texture polypropylene sheet made with a Non-slip underside.



Distributed by:  **Polymershapes**

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Email: info@polymershapes.com
www.polymershapes.com

