ViPrint™ Metal 3800 Product Datasheet

Version 2a
14/03/2007

Description

VitasheetGroup's ViPrint Polypropylene sheets are designed for the graphic arts industry. They are corona treated on both sides and can be printed and decorated using different techniques (Screen or offset printing, embossing, stamping). They include an antistatic treatment to avoid attracting dust. They are offered in a wide range of colours and emboss finish and are often available from stock.
ViPrint Metal 3800 : a range of metallic colours available in shiny or matt finish.

Applications

Stationery, printing, promotion, design, point of sales…

Key Features

Certification/Approvals

Approved grades (depending on colour) are available on request.
Food: European Legislation 2002/72/EC.
TOY: EN 71 Part 3.

Printing

Can be screen printed (please specify in case of offset printing).

Conversion

Guillotine cutting: Can be cut on traditional printing guillotine with double-edged blade.
Creasing: Cold and hot creasing technique can be used depending on the thickness. The resulting hinges can be folded million of times thanks to the remarkable characteristics of polypropylene.
Welding: Different techniques can be used to weld ViPrint (Thermal (thin gauge), Ultrasonic, Hot Gas).
Gluing: ViPrint can be glued with PUR glue or hot melt, although welding is the preferred option.

Product Availability

Colour

Available in 5 opaque colours.

Finish

Fine Sand/Sand G02 or Gloss/sand G04.

Thickness

0.4 mm to 1.2 mm.

Sheet Size Specifications

Gauge	Sheet sizes	
	Width	Length
0.4 to 0.8 mm (G02) 0.5 to 0.8 mm (G04)	500/1200 mm	700/1600 mm
0.8 to 1.2 mm (G02) 0.8 to 1.2 mm (G04)	500/1250 mm	500/1600 mm

NB: available sizes may vary depending on colours/embosses/order size, please ask confirmation to sales department.

Physical properties (Guide Only*)

Properties	Unit	Standard	Method	Value
Density	g/cm^3	ISO 1833	-	0.92
Charpy Notched Impact Strength	kJ/m^2	ISO 179	1eA at 23°C	9
Tensile Strength	MPa	ISO 527	50 mm/min	36
Elongation at Break	%	ISO 527	50 mm/min	14
Flexural Modulus	MPa	ISO 178	2 mm/min	850
Elastic Modulus	MPa	ISO 178	50 mm/min	900

*The above properties are based on data given by the polypropylene manufacturer. However due to modifications during the extrusion process, the above data should only be used a rough guide. The density value can change depending upon the type and quantity of pigments or additives used.

Additional Information

Thermoforming

This product is not recommended for thermoforming, as there is a good possibility the sheet may web during the process.

Outdoor/UV Resistance

In outdoor or strong UV light conditions, ViPrint can become brittle in a matter of months. For UV resistance grades please contact the Sales Office.

Storage

This product has been corona treated which is required to allow ViPrint to be printed and glued. It should be noted that it has a limited shelf life, which can be effected by how it is stored. Ideally it should be stored in dark, dry and cool conditions.

Chemical Resistance

Chemical resistance is influenced by many factors, including concentration, temperature, exposure time and material stress. Therefore the data below should only be used as a guide.

Reagent	Chemical resistance	Reagent	Chemical resistance
Acetone	Very good	Beer	Excellent
Acid – (Weak)	Excellent	Brake Fluid	Very good
Acid – (Strong)	Very good	Coffee	Excellent
Alcohol	Very good	Detergent	Excellent
Anti-freeze	Excellent	Diesel	Good
Base (Weak)	Excellent	Foodstuffs	Excellent
Base (Strong)	Good	Lubricating Oil	Good
Battery Acid	Very good	Petrol	Good

Manufacturing Tolerances

SHEET GAUGE	Up to 0.8 mm	0.81 to 2.00 mm
GAUGE	± 0.02 mm	± 0.03 mm
LENGTH*	± 1 mm	± 1 mm
WIDTH*	± 1.5 mm	± 1.5 mm

* maximum difference between 2 sheets of a same lot.

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