

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 Reflet 3800: a set of translucent pastel shade with a glossy finish.

Applications

School and office stationery, lamps, advertising, lightings, gift boxes...

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

All printing technique are possible (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

Translucent sheet with 9 standards colours.

Finish

Gloss/Sand G04

Thickness

0.3 mm to 2 mm.

Sheet Size Specifications

| Gauge | Sheet sizes | |
|----------------|-------------|-------------|
| | Width | Length |
| 0,3 to 0, 4 mm | 500/1250 mm | 900/1200 mm |
| 0,4 to 0, 8 mm | 500/1250 mm | 700/1600 mm |
| 0,8 to 2 mm | 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 | 17 |
| Tensile Strength | MPa | ISO 527 | 50 mm/min | 25 |
| Elongation at Break | % | ISO 527 | 50 mm/min | 12 |
| Flexural Modulus | MPa | ISO 178 | 2 mm/min | 800 |
| Elastic Modulus | MPa | ISO 178 | 50 mm/min | 850 |

*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.

VitasheetGroup

Charta House
30 - 38 Church Street
Staines
TW18 4EP
www.vitasheetgroup.com

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