

# PRODUCT SPECIFICATION



## Matt White PE - Teslin® (IDP) Permanent



### Description

110gsm Uncoated, filled polyolefin film. A unique material that looks, prints and fabricates like paper but is durable like plastic film. The microporous structure makes the product absorptive yet water resistant, soft and pliable but strong, highly printable and durable. The porous, uncoated nature of the sheet allows inks and toners to form strong bonds with the substrate. The material is waterproof, durable (chemical and abrasion resistant), conformable, steam sterilisable and offers a long life alternative to paper labels.

### Adhesive

Marine grade UV acrylic adhesive in conjunction with this face material is approved to BS5609 Part 2 (labelling of chemicals for transport by sea/air). Minimum application temperature: 0°C  
Temperature range: -40°C to +150°C  
Tack and final adhesion: extremely high.  
Excellent for applications where durability and water resistance is required. For test tube or tight radius labelling the conformability of the face combined with the strength of the adhesive makes this combination ideal. The adhesive meets the requirements of FDA 21 CFR 175.105 (for indirect food contact), EN71-3 (Toy Safety), CONEG, The Packaging (Essential Requirements) Regulations 2015 & EU Regulation 94/62/EC (Packaging and Packaging Waste). No heavy metals are used in the manufacturing process and typical contents are less than 1ppm.

### Backing

White high density kraft paper with excellent lay flat properties

### Printing Information

#### Litho:

The material is absorbent and appropriate inks should be used  
Die cut labels - use formulated extra low tack inks (not just reduced) and a hard blanket (compressibles are not advised as they increase the suction effect on the labels).

#### Laser & Copier - 'digital':

Excellent laser printing qualities.  
For best results set paper type as Plain and media weight appropriate to the laminate.

#### Ink Jet:

Suitable for aqueous based ink jet

#### HP Indigo:

Approved for HP Indigo printing.

#### Laminate:

Thickness: 315mic      Weight: 250gsm

### Availability

Available in ranges:

PCL  
Digital Office  
A3  
PCL3 Digital  
SRA3+



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### Further Information

BS5609 - The material is approved for Chemical Hazard Labelling and is BS5609 Part 2 (label & adhesive durability) certified.

When used in conjunction with OKI printers (please refer to OKI website for compliant printers and toners) the finished printed item is also BS5609 Part 3 (print durability) certified.

<http://www.oki.co.uk/printers/chemical-hazard-labels/approved-printers/index.aspx>

### Test Results

#### Typical values

##### Face:

Grammage	110gsm
Caliper	178 microns

##### Adhesive:

Adhesive Coat weight	40gsm
Tack	Extremely high
Peel adhesion	Extremely high
Cohesion	Extremely high
Min application temperature	0°C
Service temperature	-40°C to + 150°C
Shelf Life	4 years*

The adhesive is particularly suitable for labelling strongly curved, rough, undulating, dusty or oily surfaces as well as rubber products and containers for chemicals. Chemical barrels can be labelled after filling (maximum fill temperature 180°C).

It is particularly resistant to light, heat and ageing.

The label is approved to BS5609 part 2.

#### Backing:

The high density white kraft, solventless silicone coated, backing provides the stiffness and stability required by sheet fed print applications for trouble free printing.

Grammage:	97gsm
Caliper:	97 microns
Grammage:	

Total laminate:	
Grammage:	250gsm
Caliper:	315 microns

#### Storage Conditions - General

\*Storage at a temperature of 20 +/- 5°C and relative humidity of 45 +/- 5% is recommended. Moisture, heat and direct sunlight have to be avoided.



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