

Environmental Considerations

Product group: Tenzalopes® (heat welded, self-adhesive document envelopes)

Top Film

Films used in the manufacture of Tenzalopes® are based on LDPE – Society of Plastics Industry recycling code 04. LDPE also has a high calorific value and is therefore suitable for controlled incineration. When LDPE is incinerated in a controlled manner the combustion products are carbon dioxide and water.

When printed, the inks used are water based. Inks containing heavy metals, likely to be injurious to health, are not used.

Adhesives

Adhesives used for our Tenzalopes® products are either emulsions based on acrylates and tackifiers or hotmelt systems based on rubber or acrylics to form a thermo-plastic compound. We do not use solvent-based adhesives.

Our standard grades conform to EN71, part III (toy safety regulations) and FDA indirect food contact.

In general, adhesive systems, once in the laminate state are inert and under normal conditions of use represent no known hazard to health.

Backing Papers

Release liners are predominantly PE coated Krafts with some clay-coated Krafts also used. The pulps used for these liners are sourced from managed forests and predominantly using TCF and “low chlorine” bleaching methods.

In addition, the silicone systems utilised are either emulsion, or 100% solid thermal and UV initiated. Solvent-based systems are not used.

Unbleached Kraft release is also used which present no known hazard to health

Commitment to the Environment

Tenza Technologies recognizes the need to conduct its activities in an environmentally sound and responsible manner, by informed choice of raw materials and forms of energy, product and process development.

Our objective is to ensure that all operations are performed in such a way as to minimise the environmental impact at both local and global level.

Material Data Sheet

Product

Tenzalopes® - Self-adhesive document envelopes

Composition

A heat welded envelope made of Low Density Polyethylene (LDPE), which if printed, will use ink free of heavy metals likely to be injurious to health.

An adhesive which is usually an acrylic resin, but can be a synthetic thermoplastic rubber.

A release paper which is siliconised polyethylene coated or clay coated paper.

Safety Data and General Precautions

General

Under normal conditions of use, handling and storage, we do not know any undue health hazards.

Fire

Paper products are combustible and therefore any source of ignition should be avoided during use, handling or storage.

Water, foam, carbon dioxide and power fire extinguishers are suitable for fire fighting.

In any closed area, excessive heat or incomplete combustion may generate offensive or toxic fumes. Therefore, self-contained, positive pressure breathing apparatus should be worn in these circumstances.

Processing

Normal safety principles and industrial hygiene practices should be observed during processing.

This family of products is not normally intended for application to skin.

Waste Disposal

Should be done properly by licensed means.

Tenzalopes® Specification Sheet

| | |
|--------------------------------------|---|
| <u>Product Type</u> | Tenzalopes® - Self-adhesive document envelopes. |
| <u>Composition</u> | A heat welded LDPE envelope, coated with a pressure sensitive adhesive and backed with a bleached Kraft release paper. |
| <u>Material Specification</u> | |
| Top Film | Type: Clear LDPE Caliper: 44 μ (+/- 4) |
| Bottom Film | Type: Clear LDPE Caliper: 30 μ (+/- 3) |
| Adhesive | Type: Permanent resinated acrylic emulsion or synthetic thermoplastic rubber hotmelt adhesive. Formulated to have high adhesion from a wide range of substrates. Coatweight: 19 gsm (+/- 1 gsm) |
| Release Paper | Type: Siliconised bleached kraft Substance: 56 gsm |
| <u>Shelf Life</u> | Approximately 2 years @ 25 °C and 50 % relative humidity. |
| <u>Applications</u> | For the insertion of documents, invoices etc. which can be attached to the outside of packages etc. during transport of goods. |
| <u>Physical Properties</u> | 1) Dimensions – standard bag Internal, nominal +/- 3 mm. External, nominal +/- 3 mm Tighter dimensions for specials may be agreed. 2) Print – colour to match customer's requirements or specified PMS no. 3) Adhesion – Adhesion to most clean/dry surfaces under normal conditions of application. |
| <u>Possible Sizes</u> | Minimum Internal Dimensions: 80 x 80mm Maximum Internal Dimensions: 350 x 1320mm |
| <u>Packaging</u> | Cartons of 500/1000 pieces. Non standard quantities may be agreed. |

THIS PRODUCT DOES NOT CONTAIN PVC
NO ORGANIC SOLVENT BASED INKS/ADHESIVES ARE USED IN THE
MANUFACTURING PROCESS