



Z-Xtreme 4000T White High Tack

Permanent labels

Thermal Transfer

Description

This unique white matte finished polyester label is specially designed to provide chemical and solvent resistance when matched with the correct Zebra ribbon (refer to the **Z-Xtreme™ Product Selection Guide** to choose the ribbon most appropriate for your application). The facestock provides excellent print quality, from small fonts to high density bar codes, with all matched Zebra ribbons. The synthetic rubber based adhesive is excellent for applications requiring quick initial tack including low surface energy plastic, glass and painted parts. It is also suited to applications requiring good performance at lower temperatures.

Suggested Applications

- UL/CSA compliance product labelling
- Top-side PCB labelling
- Asset labelling
- Automotive labelling
- Serial plate labelling
- Autoclave labelling in medical applications
- Labels exposed to acid or alkali solutions
- Chemical drum labelling
- Medical device labelling
- Electric motor labelling

Technical Specifications

| | Description | Caliper |
|-----------|---|--------------------------|
| Facestock | Matt white coated polyester | 50 microns |
| Adhesive | Permanent high-tack rubber based adhesive | 25 microns |
| Liner | White Glassine Liner | 52 microns |
| | | Total 127 microns |

| | |
|---|---|
| Recommended Zebra printers: | high-performance thermal transfer printers (testing is strongly recommended on mid-range printers) |
| Recommended Zebra ribbons: | 5319, 3200, 4800, 5095 (5100 ribbon is recommended on high-performance printers only) |
| Minimum application temperature: | 5°C |
| Service temperature range: | -40°C to 150°C |
| Recommended storage conditions: | One year duration when stored at approx 0°C to 21°C at 35% to 50% RH |
| Expected exterior life: | one year |



Z-Xtreme 4000T White High Tack continued

Suggested Ribbons for Applications with Standard Chemicals

| | Weak | | | | | Moderate | | | | Harsh | | | Extreme | | | | |
|-------------|-------|------------|------------|-------|----------------|----------|---------|--------|-----|----------|--------|-----|---------|-----------|-----|-----|--------|
| | Blood | Body Fluid | Salt Water | Water | Window Cleaner | Alcohol | Ammonia | Bleach | IPA | Gasoline | Grease | Oil | Acetone | IR Reflow | MEK | TCE | Xylene |
| 3200 | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X |
| 5095 | X | X | X | X | X | X | X | X | X | | X | X | | | | | |

Performance Characteristics

The below table is a guide in choosing the proper ribbon to maximise the chemical resistance with Z-Xtreme™ label stocks. Because wax/resin ribbons carry the characteristics of both wax and resin ink formulations these ribbons should be tested in all applications. Please refer to the **Z-Xtreme™ Product Selection Guide** for detailed information regarding specific ribbon performances.

| Chemical Groups | Common Examples | 5319 | 5095, 5100 |
|---|------------------------------------|-------------------|-------------------|
| | | ribbon resistance | ribbon resistance |
| Low molecular weight petroleum distillates | WD-40, Gunk Degreaser, Gasoline | Test | Recommended |
| High molecular weight petroleum distillates | Motor Oil | Test | Recommended |
| Chloro-Fluoro-Carbons | Genesolv 2004 | Test | Not Recommended |
| Ketones | Acetone | Test | Not Recommended |
| Alcohols | Isopropyl Alcohol | Test | Recommended |
| Glycols/Diols | Brake Fluid, Skydrol | Test | Test |
| Ionic Solutions | Formula 409 | Test | Recommended |
| Aromatic Hydrocarbons | Xylene | Not Recommended | Not Recommended |
| Aliphatic Hydrocarbons | Hexane | Not Recommended | Recommended |



UL/CSA Acceptances:

Z-Xtreme 4000T White High-Tack with 5319, 5049, 3200, 4800, 5095 and 5100 ribbons is UL-recognized and CSA-accepted for indoor/outdoor use.

180° Peel Room Temperature Peel Adhesion (N/m):

| Steel | | Polycarbonate | | Polyethylene | |
|-------|-------|---------------|-------|--------------|-------|
| 5 min | 24 hr | 5 min | 24 hr | 5 min | 24 hr |
| 726 | 792 | 704 | 825 | 462 | 594 |

Facestock Tensile Strength:

- Machine direction: 18,000 psi
- Transverse direction: 22,000 psi

NOTE: For guidance only, not to be used for setting specifications

Product Performance and Suitability

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

For testing of this material, please order SAM5432.