# Durable Print Solutions
## WI100 Wire Wrap

**Technical data** **November, 2016**

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| **Product Description** | A clear matte vinyl film with a permanent pressure sensitive acrylic adhesive designed for adhering to round surfaces. The topcoat and coloured areas are suitable for high-resolution thermal transfer printing with resin and wax/resin ribbons. |
| **Main Benefits** | Works as a self-laminating film for the identification of wires, cables and laboratory vials. The coloured thermal transfer printable area is very smooth, making it ideal for THT printing. The transparent parts of the labels are wound over the printable area for the best abrasion, solvents, water, dirt, oils and excessive handling resistance. This high tack, flexible vinyl with excellent conformability, has a good oil and chemical resistance and is extremely suitable for small diameter applications. |
| **Application Ideas** | • Wire and cable identification<br>• Vial identification<br>• Indoor applications<br>• Outdoor applications for at least 5 years depending on the conditions and use |

**PHYSICAL PROPERTIES**

| | **Product Data** | **Typical Value** | **Test method** |
|---|---|---|---|
| | **Thickness film** | 80 micron | ASTM D 3652 |
| | **Thickness adhesive** | 22 micron | ASTM D 3652 |
| | **Thickness liner** | 81 micron | ASTM D 3652 |

**ADHESION PROPERTIES****

| | **Adhesion from** | **Typical Value** | **Test method** |
|---|---|---|---|
| (Adhesive - Acrylic PSA) | **Stainless steel** | 18 (N/25mm) | FTM 1 (72 hr dwell) |
| | **Glass** | 17 (N/25mm) | FTM 1 (72 hr dwell) |
| | **Polypropylene** | 13 (N/25mm) | FTM 1 (72 hr dwell) |
| | **Acrylic** | 20 (N/25mm) | FTM 1 (72 hr dwell) |

**For guidance only. This data is based on limited test results due to the custom nature of this product, not to be used for setting specifications.

| | **Typical Value** | **Test method** |
|---|---|---|
| **Shear:** | 50 hours | FTM 8 (1 hour dwell on stainless steel with a 2kg weight) |
| **Probe tack:** | 380 gram/cm$^2$ | ASTM D 2979 |

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| **Application temperature:** | 10°C (min) |
| **Service temperature:** | -40°C to +80°C |

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| **Storage** | Store at standard room temperature conditions of 21°C and 50% relative humidity. |
| **Shelf Life** | At least 24 months from date of dispatch by Rebo when stored in the original packaging at 21°C & 50% relative humidity. |
| **For Additional Information** | To request additional product information or to arrange for sales assistance, call +31 (0)35 - 601 69 41 or send an email to info@rebosystems.com |
| **Special Considerations** | The surface that you want to label should be clean, dry and free of any surface contamination, such as dust, oil or rust. When you apply the label, you must use firm pressure to increase the physical contact of the adhesive with the surface of the product. Pressure sensitive adhesives will provide stronger bonds to a warm surface, as compared to a colder one. The adhesive will 'flow' more readily; increasing the surface area and increasing the adhesion peel strength.<br>All values shown are averages and should not be used for specification purposes.<br>Adhesion and tack values have a 15% tolerance allotted to the values stated.<br>Test data and test results contained in this document are for general information only and shall not be relied upon by customers for designs and specifications, or be relied on as meeting specified performance criteria.<br>**IMPORTANT:** Ultimately customers are advised to test the materials, referred to above, in their own performance environments to be certain of their performance. Data supplied by Rebo is general in content and cannot cover all the possible environments required by customers. |
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