



## Hostaphan® RDIS SI630

### Transparent, siliconised polyester film with low release force for release liners

Hostaphan® RDIS SI630 is a one side silicone coated, biaxially oriented film, made of polyethylene terephthalate (PET) and characterized by outstanding properties. The siliconised film is designed to be used in release liner applications. Because the silicone is well cured, there is little migration of the silicone to any adhesive which may be in contact with the film. The film is not permitted to be used in food applications in the EU.

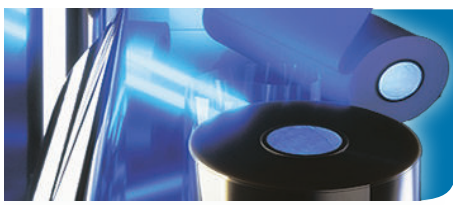
**WARNING:**

Silicone coated film is very slippery. Do not discard scrap film on the floor. Injury may result if stepped on.

### Typical properties

| Property   | Thickness<br>µm    | Units             | Value                |                      | Test Method                                 | Test Conditions   |
|--|--------------------|-------------------|----------------------|----------------------|---|---|
|  |                    |                   | MD                   | TD                   |   |   |
| <b>MECHANICAL</b>  |                    |                   |                      |                      |   |   |
| Tensile strength   | 19, 23<br>30<br>36 | N/mm <sup>2</sup> | 240<br>250<br>250    | 260<br>260<br>260    | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 100 %/min.;<br>23 °C, 50 % r.h.                              |
| Elongation at break  | 19, 23<br>30<br>36 | %                 | 130<br>140<br>140    | 130<br>130<br>130    | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 100 %/min.;<br>23 °C, 50 % r.h.                              |
| Young's Modulus  | 19, 23<br>30<br>36 | N/mm <sup>2</sup> | 4400<br>4400<br>4400 | 4800<br>4800<br>4800 | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 1 %/min.;<br>23 °C, 50 % r.h.                                |
| F5-value (stress to obtain 5% elongation)                          | 19, 23<br>30<br>36 | N/mm <sup>2</sup> | 110<br>110<br>110    | 100<br>105<br>105    | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 100 %/min.;<br>23 °C, 50 % r.h.                              |
| <b>THERMAL</b>   |                    |                   |                      |                      |   |   |
| Shrinkage  | 19-36              | %                 | 1.3                  | 0.2                  | DIN 40634                                   | 150°C, 15 min.  |
| <b>SURFACE</b>   |                    |                   |                      |                      |   |   |
| Coefficient of friction<br>(Uncoated surface)<br>Static<br>Dynamic | 19-36              | -                 |                      | 0.35<br>0.3          | DIN53375 or<br>ASTM-D 1894                  | -   |
| <b>PHYSICAL/CHEMICAL</b>   |                    |                   |                      |                      |   |   |
| Density  | 19-36              | g/cm <sup>3</sup> | 1.4                  |                      | ASTM-D 1505-68<br>method C                  | 23°C  |
| <b>SILICONE FUCTIONALITY</b>                                       |                    |                   |                      |                      |   |   |
| Release from silicone side   | 19-36              | g/25 mm           | 10                   |                      | -   | Unsupported T-peel<br>from tesa 7475 tape @<br>12in./min, initial value |

The release force given in this datasheet has been measured using a standard commercial adhesive tape. In our experience, release levels vary with different pressure sensitive adhesives, face-stock materials and thickness as well as test conditions. Actual release force needs to be measured specifically for any given liner/adhesive/face-stock structure.



| Property            | Thickness<br>$\mu\text{m}$ | Units | Value |    | Test Method | Test Conditions                                    |
|---------------------|----------------------------|-------|-------|----|-------------|--|
|                     |                            |       | MD    | TD |             |  |
| Subsequent adhesion | 19-36                      | %     | > 75  |    | -           | Similar to FINAT FTM 11                            |
| Smear               | 19-36                      | -     | None  |    | -           | Haze observed when rubbed once with index finger   |
| Rub-off             | 19-36                      | -     | None  |    | -           | Coating removed when rubbed hard with index finger |

MD = Machine direction, TD = Transverse direction

### Applications:

- Release liner for label stock
- Other release applications

### Delivery program Hostaphan® RDIS SI630

| Thickness<br>$\mu\text{m}$ | Yield                 |                        | Roll length<br><i>m</i> | Roll-diameter<br><i>mm</i> |
|----------------------------|-----------------------|------------------------|-------------------------|----------------------------|
|                            | $\text{g}/\text{m}^2$ | $\text{m}^2/\text{kg}$ |                         |                            |
| 19                         | 27                    | 37                     | On request              | On request                 |
| 23                         | 32                    | 31                     |                         |                            |
| 30                         | 42                    | 24                     |                         |                            |
| 36                         | 50                    | 20                     |                         |                            |

Core diameter: 152.4 mm (6")

This data sheet reflects our state of knowledge at the time this was prepared. The purpose is to provide an overview of the characteristics of our products and their potential uses. The values given reflect the typical characteristics of the film. They are not specification limits. They are neither a guarantee of specific properties nor the suitability of products in specific applications. The user must observe industrial property rights, such as patents or trademarks. The quality of our products is covered by the terms of the General Conditions of Sale of MITSUBISHI POLYESTER FILM GmbH.