

## Raflatac Technical Information

23-06-2025 EN SI EMEA

|                |                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b> | <b>PET GLOSS WHITE TC 50 / RC18 / HD 70</b>                                                                                                                                                                                                                                                                                                                                               |
| Sales Code     | 8L/RC18/28                                                                                                                                                                                                                                                                                                                                                                                |
| EAN            | 6415788061930                                                                                                                                                                                                                                                                                                                                                                             |
| Product use    | Product designed as a universal durables labelling solution, performing the lifetime of the labelled product with very good adhesion and good print resistance against chemicals, UV-light, heat and moisture. Its universality helps simplify product portfolios and reduce testing and evaluation of label materials. This product is less prone to dusting than equivalent matt films. |

### Typical technical values

|              |                                                                                                                                                                                                                 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Face</b>  | <b>PET GLOSS WHITE TC 50</b>                                                                                                                                                                                    |
| Product      | White, glossy, top coated polyester film.                                                                                                                                                                       |
| Substance    | 71 g/m <sup>2</sup> DIN 53352                                                                                                                                                                                   |
| Caliper      | 50 µm DIN 53370                                                                                                                                                                                                 |
| Opacity      | 81 % ISO 2471                                                                                                                                                                                                   |
| Gloss        | 65 % ASTM D2457                                                                                                                                                                                                 |
| Printability | Suitable for flexography, screen, offset and UV inkjet printing methods. Special inks designed for non-absorbent materials should be used. Thermal transfer possible with selected wax-resin and resin ribbons. |

|                 |                            |
|-----------------|----------------------------|
| <b>Adhesive</b> | <b>RC18</b>                |
| Type            | Strong permanent           |
| Composition     | UV-acrylic                 |
| Tack            | 20 N/25mm FTM 9 (on glass) |
| Peel 180°       | 23 N/25mm FTM 1 (on glass) |

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Backing</b>      | <b>HD70</b>                                 |
| Product             | A white transparent glassine backing paper. |
| Substance           | 62 g/m <sup>2</sup> ISO 536                 |
| Caliper             | 54 µm ISO 534                               |
| Tensile strength MD | 7 kN/m ISO 1924                             |
| Tensile strength CD | 2,7 kN/m ISO 1924                           |
| Transparency        | 48 % DIN 53147                              |

|                               |        |
|-------------------------------|--------|
| <b>Performance</b>            |        |
| Total caliper                 | 129 µm |
| Minimum labelling temperature | 5 °C   |

Service temperature

-40 °C to 200 °C

Shelf life

From date of manufacture: 24 months, under FINAT defined storage conditions (+20-25°C and RH 40-50%). Prolonged storage at higher temperatures and/or humidity levels will shorten the shelf life.

### Information

Adhesive coatweight

25 g/m<sup>2</sup>

Adhesion

Due to the fact that the adhesive needs a certain time to reach its final adhesion, we recommend waiting at least 24h (better 72h) after dispensing the label to the substrate before proceeding with any performance tests. Test Conditions: 23°C and 50% rH. FTM1: 180° Peel Adhesion (300 mm/min) with 72 h dwell time.

| Surface             | [N/25mm] |
|---------------------|----------|
| Stainless Steel     | 21       |
| ABS                 | 18       |
| Polycarbonate       | 25       |
| Polypropylene       | 18       |
| HDPE                | 12       |
| PA6                 | 16       |
| PA6 + GF30          | 15       |
| Polyester           | 17       |
| Lacquered panel     | 15       |
| Powder coated panel | 11       |

Chemical resistance

Test Conditions: Dwell time on glass plate: 24 h; 23°C 50% RH Immersion in chemical: 4 h; 23°C 50% RH

| Chemical           | Visual Appearance | Edge Penetration (mm) |
|--------------------|-------------------|-----------------------|
| Brake Fluid        | no change         | 0                     |
| Engine Oil         | no change         | 0                     |
| Diesel             | no change         | 0                     |
| Distilled Water    | no change         | 0                     |
| Dish Washing Agent | no change         | 0                     |
| Bleach             | no change         | 0                     |

Thermal Transfer Ribbons

(included in File MH26760) Armor: AXR7+, AXR 600 limak: SP-330 Pelikan: T016 Ricoh: B110C, B120E Sony: TR4070

### Approvals

UL and CSA compliance

UL recognized acc. to UL969 and CSA recognized acc. to C22.2 No. 0.15. File-No.: MH26760

File MH26760: Additional conditions: D - Occasional exposure to Detergents F1 - Occasional exposure to Fuel Oil No. 1 F2 - Occasional exposure to Fuel Oil No. 2 G - Occasional exposure to Gasoline splashing O - Occasional exposure to Lubricating Oil

| Application Surface                   | Max Temp [°C] | Min Temp [°C] | Indoor Use | Outdoor Use | Additional conditions |
|---------------------------------------|---------------|---------------|------------|-------------|-----------------------|
| Alkyd paint (AK PT)                   | 80            | -40           | x          | x           | D, O, G, F1, F2       |
| Aluminium (AL)                        | 80            | -40           | x          | x           | D, O, G, F1, F2       |
| Stainless steel (SS)                  | 80            | -40           | x          | x           | D, O, G, F1, F2       |
| Acrylonitrile butadiene styrene (ABS) | 80            | -40           | x          | x           | D, O, G, F1, F2       |
| Polyethylene (PE)                     | 80            | -23           | x          | x           | -                     |
| Polypropylene (PP)                    | 80            | -23           | x          | x           | -                     |
| Polystyrene (PS)                      | 80            | -40           | x          | x           | D, O, F2              |

#### Typical values

The listed technical data are typical values and give indications about the performance of the material only. They are not intended for specification purpose.

#### Disclaimer

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Users of our products are solely responsible that the product is suitable for its intended application, and have determined such at their sole discretion. Users must comply with any applicable legislation and/or testing requirements for the finished article, and are responsible for bringing their products to market.

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