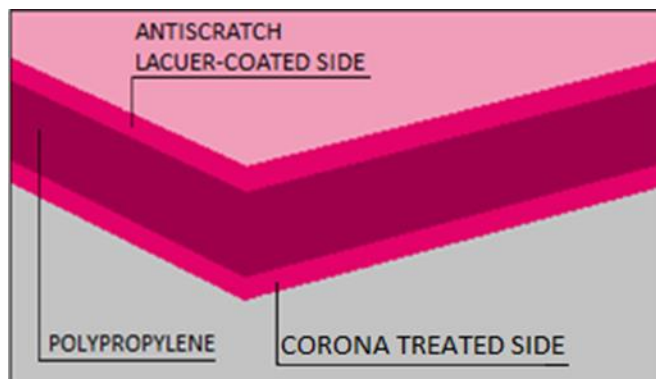


## TECHNICAL DATA SHEET

### K18 ULTRASHIELD MATT

**K18 ULTRASHIELD MATT** is a matte polypropylene film with one side (*outside*) coated with a lacquer that provides an antiscratch effect, and the other side corona treated.

*This film complies with EN-71 (declaration on request). This film is not suitable to come into direct contact with food.*



#### TYPICAL TECHNICAL FEATURES <sup>(1)</sup>

| PHYSICAL PROPERTIES |                     | METHOD     | UNIT             | VALUE<br><i>code 545/83</i> |
|---------------------|---------------------|------------|------------------|-----------------------------|
| Thickness           |                     | ASTM E252  | μm               | 18 ± 1,5                    |
| Grammage            |                     | Internal   | g/m <sup>2</sup> | 17,8 ± 0,89                 |
| COF                 | dynamic             | ASTM D1894 | -                | ≤ 1,6                       |
| Surface tension     | corona treated side | ASTM D2578 | dyne/cm          | ≥ 38                        |
|                     | lacquer-coated side |            |                  | ≥ 38                        |

| MECHANICAL PROPERTIES |    | METHOD    | UNIT | VALUE<br><i>code 545/83</i> |
|-----------------------|----|-----------|------|-----------------------------|
| Tensile strength      | MD | ASTM D882 | Mpa  | ≥ 100                       |
|                       | TD |           |      | ≥ 165                       |
| Elongation at break   | MD | ASTM D882 | %    | ≤ 180                       |
|                       | TD |           |      | ≤ 70                        |

| THERMAL PROPERTIES     |    | METHOD     | UNIT  | VALUE<br><i>code 545/83</i> |
|------------------------|----|------------|-------|-----------------------------|
| Thermal shrinkage      | MD | ASTM D1204 | %     | ≤ 3,0                       |
|                        | TD |            |       | ≤ 2,0                       |
| Lamination temperature |    | Internal   | °C    | 90 - 110 <sup>(+)</sup>     |
| Lamination pressure    |    | Internal   | Mpa   | 20 - 25 <sup>(+)</sup>      |
| Lamination speed       |    | Internal   | m/min | 30 - 50 <sup>(+)</sup>      |

| OPTICAL PROPERTIES |  | METHOD     | UNIT | VALUE<br><i>code 545/83</i> |
|--------------------|--|------------|------|-----------------------------|
| Haze               |  | ASTM D1003 | %    | 3 - 8                       |

<sup>(1)</sup> The information and data contained herein are to be used only as a guideline; therefore, ULTRALEN FILM GmbH doesn't offer any guarantee on their absolute truthfulness and doesn't accept any liability arising out of their use.

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#### **STORAGE**

Store the material in a dry location (preferably with RH < 50%) at a constant temperature between 20°C and 30°C. Do not leave it exposed to direct sunlight or atmospheric agents.

Partially used reels have to be repacked as originally supplied.

#### **WARRANTY**

Material processability is guaranteed up to 3 months since shipment date, as long as it is stored correctly. It is recommended to condition the material at room temperature at least 24 hours before its use.

#### **DISCLAIMERS**

ULTRALEN FILM GmbH gives no warranty, expressed or implied, as to the suitability of the material for a specific application or characteristic use. An industrial homologation test of the material in actual conditions of purpose is always needed in order to verify its suitability for the specific application or characteristic use. Before using the material, it is advisable to check the compatibility of the inks and adhesives to be purposed with the type and level of its treatment.

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