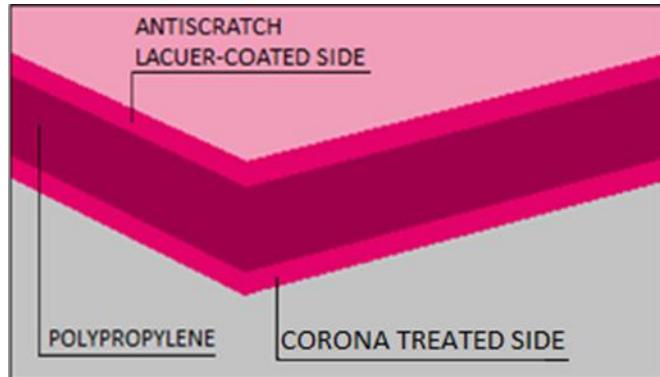


**TECHNICAL
DATA SHEET**
K18 ULTRASHIELD MATT

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 ⁽¹⁾

PHYSICAL PROPERTIES		METHOD	UNIT	VALUE <i>code 545/83</i>
Thickness		ASTM E252	µm	18 ± 1,5
Grammage		Internal	g/m ²	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 <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 <i>code 545/83</i>
Thermal shrinkage	MD	ASTM D1204	%	≤ 3,0
	TD			≤ 2,0
Lamination temperature		Internal	°C	90 - 110 ⁽¹⁾
Lamination pressure		Internal	Mpa	20 - 25 ⁽¹⁾
Lamination speed		Internal	m/min	30 - 50 ⁽¹⁾

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

⁽¹⁾ 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.

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.