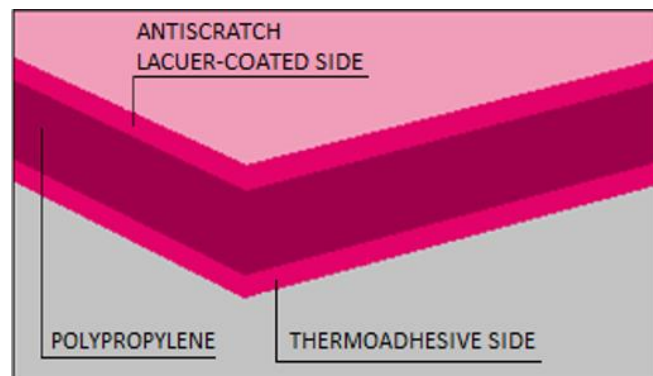


TECHNICAL DATA SHEET

TK UltraShield

TK UltraShield is a matte polypropylene film with one side coated with a lacquer that provides an antiscratch effect, and the other side coated with adhesive, which is specifically designed for thermal lamination of printed or unprinted paper and cardboard.



TYPICAL TECHNICAL FEATURES ⁽¹⁾

PHYSICAL PROPERTIES		METHOD	UNIT	VALUE code 579/83
Thickness		ASTM E252	μm	28 ± 2
Grammage		Internal	g/m ²	27,7 ± 1,39
COF	dynamic	ASTM D1894	-	≤ 0,8
Surface tension	lacquered-coated side	ASTM D2578	dyne/cm	≥ 38

THERMAL PROPERTIES		METHOD	UNIT	VALUE code 579/83
Tensile strength	MD	ASTM D882	Mpa	≥ 110
	TD			≥ 200
Elongation at break	MD	ASTM D882	%	≤ 180
	TD			≤ 75

THERMAL PROPERTIES		METHOD	UNIT	VALUE code 579/83
Thermal shrinkage	MD	ASTM D1204	%	≤ 5,0
	TD			≤ 3,0
Lamination temperature		Internal	°C	90 - 110 ^(†)
Lamination pressure		Internal	Mpa	20 - 25 ^(†)
Lamination speed		Internal	m/min	10 - 80 ^(†)

^(†) variable according to the processing conditions

OPTICAL PROPERTIES		METHOD	UNIT	VALUE code 579/83
Haze		ASTM D1003	%	≥ 60

⁽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.

ULTRALEN FILM GmbH

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STORAGE

Store the material in a dry location (preferably with RH < 50%) at a constant temperature between 10°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 6 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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