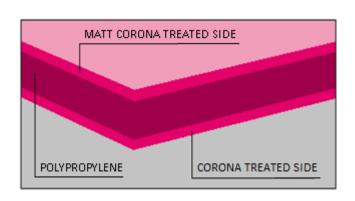


TECHNICAL DATA SHEET

K13 MATT

K13 MATT is a matt bioriented polypropylene film with both sides corona treated.

This film is suitable to come into contact with food and complies with EN-71 (declarations on request).



TYPICAL TECHNICAL FEATURES (1)

PHYSICAL PROPERTIES		METHOD	LINIT	VALUE	
PHISICAL PROPERTIES	IVIETHOU	METHOD	UNIT	code 130/45	code 130/50
Thickness		Internal	μm	13 ± 0,65	13 ± 0,65
Grammage		Internal	g/m ²	11,44 ± 0,57	10,79 ± 0,54
COF	dynamic	ASTM D1894	-	0,20 - 0,35	≤ 0,50
Surface tension	corona side	ASTM D2578	dyne/cm	≥ 38	≥ 38

MATCHANICAL PROPERTIES		METHOD	LINUT	VALUE	
MECHANICAL PROPERTIES	METHOD	UNIT	code 130/45	code 130/50	
Tensile strength at break	MD	ASTM D882	kg/cm²	1.100 - 1.300	≥ 1.000
	TD			2.200 - 2.600	≥ 2.000
Elongation at break	MD	ASTM D882	%	160 - 220	≤ 180
	TD			40 - 80	≤ 80

THERMAL PROPERTIES		METHOD	UNIT	VALUE	
THERIVIAL PROPERTIES				code 130/45	code 130/50
Thermal shrinkage	MD	Internal	%	3,0 - 5,0	≤ 4,5
(120°C/5min)	TD			1,0 - 3,0	≤ 2,0

OPTICAL PROPERTIES		METHOD	UNIT	VALUE	
OPTICAL PROPERTIES		METHOD	UNIT	code 130/45	code 130/50
Gloss	45°	ASTM D2457	GU	< 10	≤ 8
Haze		ASTM D1003	%	> 75	≥ 76

⁽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.

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STORAGE

Store the material in a dry location (preferably with RH \leq 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.