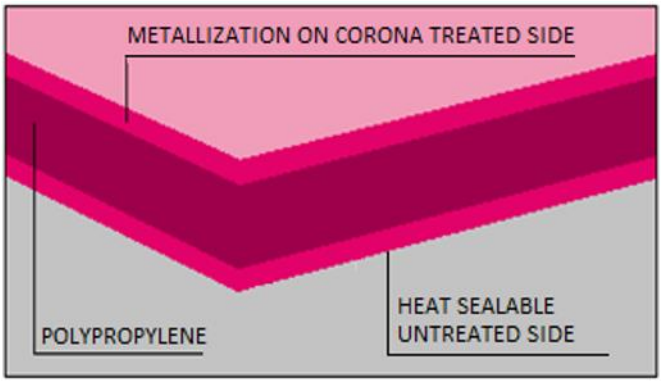
TECHNICAL DATA SHEET

K20 COEX MET SILVER

K20 COEX MET SILVER is a bioriented metallized (on corona treated side) polypropylene film with the other side heat sealable untreated. Metallized side is outside.

Untreated side is suitable to come into contact with food (declaration on request).



TYPICAL TECHNICAL FEATURES [1]

PHYSICAL PROPERTIES		METHOD	UNIT	VALUE *code 797/77*
Thickness		ASTM F2251	µm	20 ± 1
Grammage		Internal	g/m²	18,20 ± 0,91
COF *(untreated side/ untreated side)*	dynamic	ASTM D1894	-	0,30 - 0,40
Surface tension	untreated side	ASTM D2578	dyne/cm	≤ 36(ł)

(ł) In the process of printing and lamination it is recommended to refresh corona treatment.

MECHANICAL PROPERTIES		METHOD	UNIT	VALUE *code 797/77*
Tensile strength at break	MD	ASTM D882	Kg/mm²	13 - 17
	TD			24 - 32
Elongation at break	MD	ASTM D882	%	160 - 230
	TD			30 - 70

SEALING PROPERTIES	METHOD	UNIT	VALUE *code 797/77*
Sealing temperature range	Internal	°C	105 - 140
Seal strength (130°C/1bar/1s) *(untreated side/ untreated side)*	Internal	g/25mm	≥ 350

[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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THERMAL PROPERTIES		METHOD	UNIT	VALUE *code 797/77*
Thermal shrinkage (120°C/5min)	MD	ASTM D1204	%	≤ 5,0
	TD			≤ 2,0

METALLIZATION PROPERTIES	METHOD	UNIT	VALUE *code 797/77*
Optical density	Internal	-	2,0 ± 0,2
Metal bond strength	Internal	N/25mm	3,5 (ǂ)

(ǂ) This typical value is provisional, that is to be validated in the next productions and, therefore, it is susceptible of variation by ULTRALEN FILM GmbH

BARRIER PROPERTIES	METHOD	UNIT	VALUE *code 797/77*
WVTR (38°C/90%RH)	ASTM F1249	g/(m^2·24h)	≤ 0,55
O_2TR (23°C/0%RH)	ASTM D3985	cm^3/(m^2·24h·bar)	≤ 100

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.