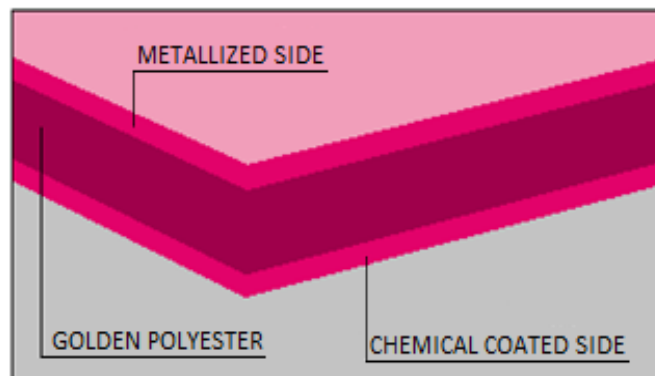


**TECHNICAL  
DATA SHEET**
**K12 PET MET ULTRAGOLD**

**K12 PET MET ULTRAGOLD** is a coloured in mass bioriented polyester film with one metallized plain side and the other one chemical coated (*outside*).

*This film is suitable to come into contact with food (declaration on request).*


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

| PHYSICAL PROPERTIES                            |                 | METHOD   | UNIT    | VALUE<br><i>code 420/30</i> |
|--|-----------------|----------|---------|-----------------------------|
| Thickness                                      |                 | ISO 4593 | µm      | 12 ± 0,6                    |
| COF ( <i>metallized side / chemical side</i> ) | dynamic         | Internal | -       | 0,4                         |
| Surface tension                                | coated side     | Internal | dyne/cm | 39 - 40                     |
|  | metallised side |          |         | 58 - 60                     |

| MECHANICAL PROPERTIES     |    | METHOD    | UNIT              | VALUE<br><i>Code 420/30</i> |
|---------------------------|----|-----------|-------------------|-----------------------------|
| Tensile strength at break | MD | ISO 527-3 | N/mm <sup>2</sup> | ≥ 200                       |
|                           | TD |           |                   | ≥ 200                       |
| Elongation at break       | MD | ISO 527-3 | %                 | ≥ 70                        |
|                           | TD |           |                   | ≥ 70                        |

| THERMAL PROPERTIES                 |    | METHOD     | UNIT | VALUE<br><i>code 420/30</i> |
|------------------------------------|----|------------|------|-----------------------------|
| Thermal shrinkage<br>(150°C/30min) | MD | ASTM D1204 | %    | ≤ 3                         |
|                                    | TD |            |      | ≤ 3                         |

| METALLIZATION PROPERTIES |  | METHOD   | UNIT | VALUE<br><i>code 420/30</i> |
|--------------------------|--|----------|------|-----------------------------|
| Optical density          |  | Internal | -    | 2 ± 0,2                     |

<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.

| BARRIER PROPERTIES            | METHOD     | UNIT                                       | VALUE<br><i>code 420/30</i> |
|-------------------------------|------------|--|-----------------------------|
| WVTR (38°C/90%RH)             | ASTM F1249 | g/(m <sup>2</sup> ·24h)                    | < 1,0                       |
| O <sub>2</sub> TR (23°C/0%RH) | ASTM D3985 | cm <sup>3</sup> /(m <sup>2</sup> ·24h·bar) | < 1,5                       |

#### 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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