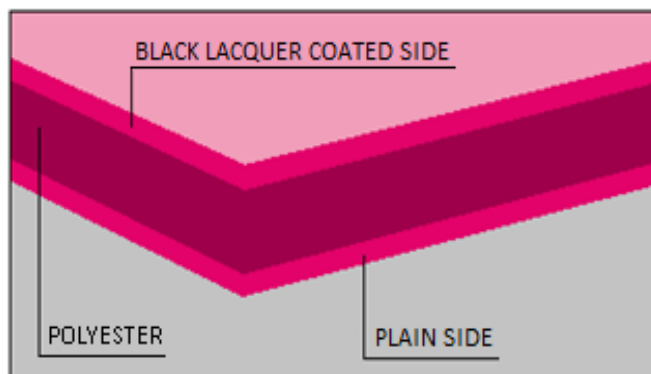


**TECHNICAL
DATA SHEET**
K13 PET BLACK COLOURED

K13 PET BLACK COLOURED is a bioriented polyester film, with one side black coloured (inside) and the other side plain.

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 | UNIT | VALUE <i>code 425/62</i> |
|---------------------|-------------|------------|------------------|-----------------------------|
| Thickness | | Internal | µm | 12,6 ± 0,32 |
| Grammage | | Internal | g/m ² | 17,64 |
| Surface tension | coated side | ASTM D2578 | dyne/cm | 46 - 50 |
| | plain side | | | 40 - 44 |

| MECHANICAL PROPERTIES | | METHOD | UNIT | VALUE <i>Code 425/62</i> |
|---------------------------|----|-----------|--------------------|-----------------------------|
| Tensile strength at break | MD | ASTM D882 | kg/cm ² | ≥ 2.000 |
| | TD | | | ≥ 2.000 |
| Elongation at break | MD | ASTM D882 | % | ≥ 100 |
| | TD | | | ≥ 90 |

| THERMAL PROPERTIES | | METHOD | UNIT | VALUE <i>code 425/62</i> |
|------------------------------------|----|------------|------|-----------------------------|
| Thermal shrinkage (150°C/30min) | MD | ASTM D1204 | % | ≥ 2,2 |
| | TD | | | ≥ 0,6 |

| BARRIER PROPERTIES | | METHOD | UNIT | VALUE <i>code 425/62</i> |
|-------------------------------|--|------------|--|-----------------------------|
| WVTR (38°C/90%RH) | | ASTM F1249 | g/(m ² ·24h) | 40 |
| O ₂ TR (23°C/0%RH) | | ASTM D3985 | cm ³ /(m ² ·24h·bar) | 135 - 140 |

⁽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 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.

ULTRALEN FILM GmbH

LUSTGARTENSTRASSE, 6 - 79576 WEIL AM RHEIN - DEUTSCHLAND

USt.ID: DE229822516

Tel.: (0049) 76214223880 Fax: (0049) 76214223839

e-mail: info@ultralen.com web: www.ultralen.com