TECHNICAL DATA SHEET

Article codes 445xxxxxxx45s

Article codes 440xxxxxxx45s /72s

K8_K12 PET CHEMICAL

Profile: Biaxially oriented transparent polyester film. One side chemically coated suitable for UV varnish and printing. Other side is Plain.

Features:

- Good adhesion for UV and solvent base inks and coatings
- Good transparency and surface properties
- Good Machinability & dimensional stability over a wide range of temperature.
- Good stiffness & mechanical properties
- Oven & Microwave use; Bopet chemical has a melting point of approx. 220°C, meaning the film can be used in a conventional oven at temperatures not exceeding 220°C for a maximum of 30 minutes, or in a 900 watt microwave for a maximum of 3 minutes, depending on the type of foodstuff it is recommended that the plain side is the side that is in contact with the foodstuff. The manufacturer of the film has not conducted any trials concerning oven or microwave use so trials by the customer are strongly recommended.

Applications: Designed for many flexible packaging applications requiring high quality printing, food and non-food applications, carton laminates, and liquid packaging.

PHYSICAL PROPERTIES ± 3%		TEST METHOD	UNIT	VALUES
Film thickness		internal	µm	8 /12
Yield		internal	m²/kg	89.2 / 59.6
Co-efficient of friction	static / dynamic	ASTM D-1894	N	0.44 / 0.34
Surface tension (Chemical coated side/Plain side)		ASTM D-2578	Dyne/cm	42 / 44

MECHANICAL PROPERTIES ± 5%		TEST METHOD	UNIT	VALUES
Tensile Strength	MD/TD	ASTM D-882	kg/cm²	2000 / 2100
Elongation at break	MD/TD	ASTM D-882	%	100 / 90
Thermal Shrinkage at 150°C/30 mins	MD/TD	ASTM D-1204	%	2.4 / 0.4

OPTICAL PROPERTIES ± 5%	TEST METHOD	UNIT	VALUES
Haze	ASTM D-1003	%	3.0
Light transmission	ASTM D-1003	%	88

BARRIER PROPERTIES ± 5%	TEST METHOD	UNIT	VALUES
WVTR, 37.7°C, 90% RH	ASTM F 1249	gm/m²/day	40
02 Permeability 23°C, 0% RH	ASTM D 3985-95	cm³/m²/day	130

MD = Machine direction. TD = Cross Machine direction. WVTR = Water vapor transmission.

Storage conditions: For the best film performance and to avoid deterioration of the film surface properties it is highly recommended that, the film should be kept in a clean, dry environment at temperatures between 18 ~ 30°c at a humidity of 55 ± 5%. and it is recommended the film should be used within the warrantee period as the film properties will decay over a period of time.

Disclaimer: The information provided above is to the best of the knowledge of the producer. The values provided are test results, which are indicative only and provided as guidelines.

Ultralen ® registered trademark: The aforementioned data is given most conscientiously but without any obligation. Any processing details are provided merely for guidance, it is the user's responsibility to check the suitability of the product for the intended application.

Warrantee: is 180 days from the date on the invoice, claims after 180 days cannot not be accepted, for warrantee purposes please have available full label information, without this, claims cannot be handled or accepted

31.08.2023