



Camvac Limited Data Sheet

PRODUCT CODE 7511/541

PRODUCT DESCRIPTION	Camclear Polyester Laminate 12/50
PRODUCT CONSTRUCTION	Solventless adhesive laminate of ; 12 Micron Polyester, Camclear coated on one side, 50 Micron Peelable Polyethylene.
TYPICAL END USE(S)	High clarity, high gas barrier packaging. The Laminate is designed to give strong peelable seals when lidded onto smooth walled aluminium foil trays.
NOMINAL YIELD NOMINAL GRAMMAGE NOMINAL GAUGE	15.85 (m ² /kg) See Note 4 63.1 (g/m ²) 63.5 microns.

PRODUCT PROPERTIES:

OXYGEN BARRIER (cc/m²/24 Hrs 23°C \cong50%R.H.) TEST METHOD; MOCON OXTRAN MINIMUM QC. TEST FREQUENCY; PER JOB.	Typical value; 2.0 Specification Limits; < 5.0
CARBON DIOXIDE BARRIER (cc/m²/24 Hrs) MINIMUM QC. TEST FREQUENCY; NOT TESTED	Typical value; < 12.0
OPTICAL DENSITY (SEE NOTE 5) TEST METHOD; TOBIAS DENSITOMETER TYPICAL VISIBLE LIGHT TRANSMISSION. MINIMUM QC. TEST FREQUENCY; PER JOB.	Typically 0.05–0.06 Specification Limits; <0.07 >85%
INTERLAYER BOND STRENGTH PETC/PE (Grams/25mm) TEST CONDITIONS; INSTRON CAMVAC LIMITED TEST PROCEDURE (SEE NOTE 6) MINIMUM QC. TEST FREQUENCY; PER JOB.	Typical value; >300 Specification Limits; >200g/25mm
COEFFICIENT OF FRICTION (PE/PE) COEFFICIENT OF FRICTION (PET/PET) TEST CONDITIONS; DAVENPORT (BS5961) MINIMUM QC. TEST FREQUENCY; NOT TESTED.	Typically; 0.20–0.50 Typically; 0.25–0.45
RETAINED SOLVENTS (mg/m²) TEST METHOD; GAS LIQUID CHROMATOGRAPHY (PIRA METHOD) MINIMUM QC. TEST FREQUENCY; PER JOB.	Specification Limits; Total <10

See Notes Overleaf Issue 5 – updated 28/10/09

GENERAL NOTES; PRODUCT DATA SHEET 7511/541

CAMCLEAR™ is the registered trademark of Camvac Limited. Freedom from patent rights on converted products should not be assumed.

1) The information contained in this data sheet is supplied in good faith but does not constitute part of any declared or implied product specification or guarantee, unless otherwise indicated. The information is believed to be accurate, but is given solely for your internal purposes. Camvac Limited shall not be liable for any inaccuracy of the information to any third parties to whom it may be passed, unless Camvac Limited has given its prior written consent to such information, and/or its incorporation with other information being given to a third party.

2) It is the responsibility of the end user to confirm suitability for their application. If in doubt about the feasibility of a particular end use, please seek technical assistance from Camvac Limited.

3) This 12/50 Camclear bilaminate will be produced using a high performance two part polyurethane adhesive. The Camclear layer is encapsulated between the polyester and polyethylene substrates. The Camclear coated polyester used in the laminate will be produced using Melinex 800 or Hostaphan RNK. However, other equivalent films may be supplied to an identical specification, subject to customer approval.

4) Gauge tolerance on the polyester substrate in the construction is +/- 10%, and on the polyethylene substrate also +/-10%, corresponding with Industry standards for these films.

5) Visible light transmission may vary from point to point within the specification limit. Because of the nature of the coating process, and the exaggeration of small differences in transmission through many layers of laminate, reels may appear to have bands in them, although variability will be much less noticeable on single sheets.

6) Interlayer bond strength is measured using an Instron on transverse direction samples with a 90° tail at 200mm/minute-crosshead speed. Test laboratory at 23°C 50% R.H. (BS5350). Bond strength pass or fail is based on an internal quality control test procedure.

7) Camvac Limited does not measure carbon dioxide barrier. Results are based on tests carried out by a recognised testing laboratory and are supplied in good faith, but for customer information only.

STORAGE

Store in dry condition (30–70% Relative Humidity) at 10–30°C. Protect reel ends from water, which can cause blocking. Web flatness of Camclear coated plastic films and laminates can deteriorate on prolonged storage. It is recommended that reels be used within 6 Months of delivery, as the anti-fog performance of this laminate deteriorates over time. The Product will not be guaranteed against specification if reels are used after this period.

FOOD CONTACT

Raw materials used in Camvac Limited's Camclear coated Polyester films and laminates comply with the following regulations:

SUBSTRATE	FDA	BGA
POLYESTER FILM	21.CFR.177.1630	EMPFEHLUNG XVII
POLYETHYLENE FILM	21.CFR.177.1520	EMPFEHLUNG III
ADHESIVE	21.CFR.175.105	EMPFEHLUNG XXVIII

Two monomers, terephthalic acid and ethylene glycol, used in the manufacture of polyester film have specific migration limits of 7.5 mg/kg and 30mg/kg respectively. Specific migration tests indicate that migration into the various food simulants is well within these limits. EEC Directive 2004/19/EC applies specifically to materials and articles consisting exclusively of plastics and to laminates of such materials.

Tests and calculations carried out by Camvac Limited on overall migration using food simulants as defined in Annex 1 of 2004/19/EC indicate migration will be within the limit of 10mg/dm² under normal conditions of use. However, if the final laminate is to be used at elevated temperatures, converters or end users are advised to refer to Camvac Limited for further information.