



CAMFRESH DATA SHEET
ExtraPet Product Code 1579/025

PRODUCT DESCRIPTION	Camclear Polyester Laminate 48/100 Anti-Fog.
PRODUCT CONSTRUCTION	Adhesive laminate of; 48 Gauge Polyester, Camclear coated on one side, laminated to 100 Gauge Heat sealable Polyester with Anti-Fog lacquer.
TYPICAL END USE (S)	High Clarity Modified Atmosphere Packaging (MAP/CAP) for meat packs and other similar end uses. Laminate has anti-mist/anti-fog properties to give good product visibility under refrigeration conditions.
NOMINAL YIELD	12.8 msi/lb
NOMINAL GAUGE	156 Gauge

PRODUCT PROPERTIES;

OXYGEN BARRIER (CC/100inch²/24 Hrs 73^oF 50%R.H) TEST METHOD; MOCON OXTRAN MINIMUM QC. TEST FREQUENCY; PER JOB.	Typical value; 0.13 Specification Limits; < 0.3
CARBON DIOXIDE BARRIER (CC/100inch²/24 Hrs 73^oF 50%R.H) MINIMUM QC. TEST FREQUENCY; NOT TESTED	Typical value; 0.8
OPTICAL DENSITY 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/PET (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 (PET/PET non heat seal surface) COEFFICIENT OF FRICTION (PET/PET heat seal surface) TEST CONDITIONS; DAVENPORT (BS5961) MINIMUM QC. TEST FREQUENCY; NOT TESTED.	Typically; 0.25-0.45 Typically; 0.4-0.5
RETAINED SOLVENTS (mg/m²) TEST METHOD; GAS LIQUID CHROMATOGRAPHY (PIRA METHOD) MINIMUM QC. TEST FREQUENCY; PER JOB.	Specification Limits; Total <10
ANTI-MIST PERFORMANCE TEST METHOD; CAMVAC LIMITED TEST METHOD	

See Notes Overleaf

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GENERAL NOTES; PRODUCT DATA SHEET
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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) Camvac Limited's 48/100 Antifog Camclear bilaminate will be produced using a high performance two-part polyurethane adhesive. The Camclear layer is encapsulated between the polyester substrates.

4) Gauge Tolerance on the polyester substrate in the construction is +/- 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 on Camvac Limited's Instron on transverse direction samples with a 90° tail at 200mm/minute-crosshead speed. Test laboratory at 73°F 50% R.H. (BS5350). Bond strength pass or fail is based on an internal test procedure.

7) Coefficient of friction cannot be guaranteed because of the antifog coating present on the heat sealable PET surface. This is not normally a problem with machines

used for MAP/CAP lidding applications. Coefficient of friction, on the non-heat seal polyester side of the laminate, cannot be guaranteed as anti-fog lacquer from the polyethylene may transfer over time onto the polyester surface thus changing the slip characteristics. The amount of transfer is dependent on winding density and reel age.

8) 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.

9) Anti fog properties are tested using a Camvac Limited standard test on every job. Anti-fog laminates have a limited shelf life. Performance can deteriorate after 6 Months of manufacture.

STORAGE

Store in dry condition (30-70% Relative Humidity) at 50-86°F. 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 3 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	EC
POLYESTER FILM	21.CFR.177.1630	2004/19EC
ADHESIVE	21.CFR.175.105	2004/19EC
ANTI-MIST ADDITIVE	21. CFR.175. 300 21.CFR.175.320 21.CFR.176.210 21.CFR.178.3400	2004/19EC

This product is compliant with Directive 2004/19/EC and relevant FDA Regulations. For further information please contact Camvac Limited.