




PACKAGE COMPONENT SPECIFICATION

TITLE  32 oz. Gel Ice (EnviroCoolant)		NUMBER EVC3290408Reg	PAGE 1 of 4
		DOCUMENT OWNER C. Derifield	EFFECTIVE DATE 04/10/2008
CORPORATE QA/Snr Mngt Approval 	04/10/08	DOCUMENT OWNER APPROVAL 	DATE 04/09/2008


1. Material Requirements

1.1. Film 3.5 mil multi-layered, coextruded polyolefin

1.1.1. Melt Index at 230°C:	2.2 MFI (g/10min)
1.1.2. Youngs Modulus:	
1.1.2.1.1.1. Longitudinal Direction:	75100 psi
1.1.2.1.1.2. Transverse Direction:	73100 psi
1.1.3. Elongation:	
1.1.3.1.1.1. At Yield	18%
1.1.3.1.1.2. At Break	440%
1.1.4. Tensile Strength:	
1.1.4.1.1.1. At Yield	3280 psi
1.1.4.1.1.2. At Break	5380 psi
1.1.5. Heat Sealing Range (Degrees C, Thermal):	160-220
1.1.6. Tensile Strength @ 23°C (MPa):	32 - 36
1.1.7. Modulus of Elasticity @ 23°C (MPa):	410 - 540
1.1.8. Instrumented Impact, Energy to Break (Rupture) (J):	0.42
1.1.9. Tear Propagation (g-f):	240
1.1.10. Coefficient of Friction:	0.20 – 0.30
1.1.11. Dart Impact:	220 g

1.2 Gel Synthetic Polymer (Cross-Linked Sodium Polyacrylate Polymer)

1.2.1	Sodium Polyacrylate Polymer: (CAS# 9033-79-8) < 1%
1.2.2	Potable Water: > 99%
1.2.3	No ingredients are designated as a hazardous material by the US Federal DOT (Land Transport); IMDG (Sea Transport); IATA.CAO (Air Transport)
1.2.4	Odor: Odorless

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2. Dimensional Requirements

2.1 Gel Pack

- 2.1.1 Dimension (seal to seal when filled): 8.5 in. x 6 in. x 1-1/2 in. (229 mm x 152 mm x 38 mm)
- 2.1.2 Tolerance: $\pm 1/4$ in. (± 6 mm)
- 2.1.3 Weight: 32 oz.
- 2.1.4 Tolerance: ± 5 %
- 2.1.5 Refer to Drawing: PR002638

4. Packaging Requirements

- 4.1 Gel Ice packaging in corrugated case
 - 4.1.1 18 gel packs per case

9. Expiration Dating

Not Applicable

10. Mechanical Requirements

- 10.1 Latent Heat of Fusion: 393 KJ/Kg $\pm 5\%$
- 10.2 Specific Gravity: ~ 1.05 g/mL
- 10.3 Viscosity: $\sim 10,000$ cP
- 10.4 Specific Heat Capacity: 0.44 cal/g°C $\pm 5\%$
- 10.5 Melting/Freezing Point: -0.23°C

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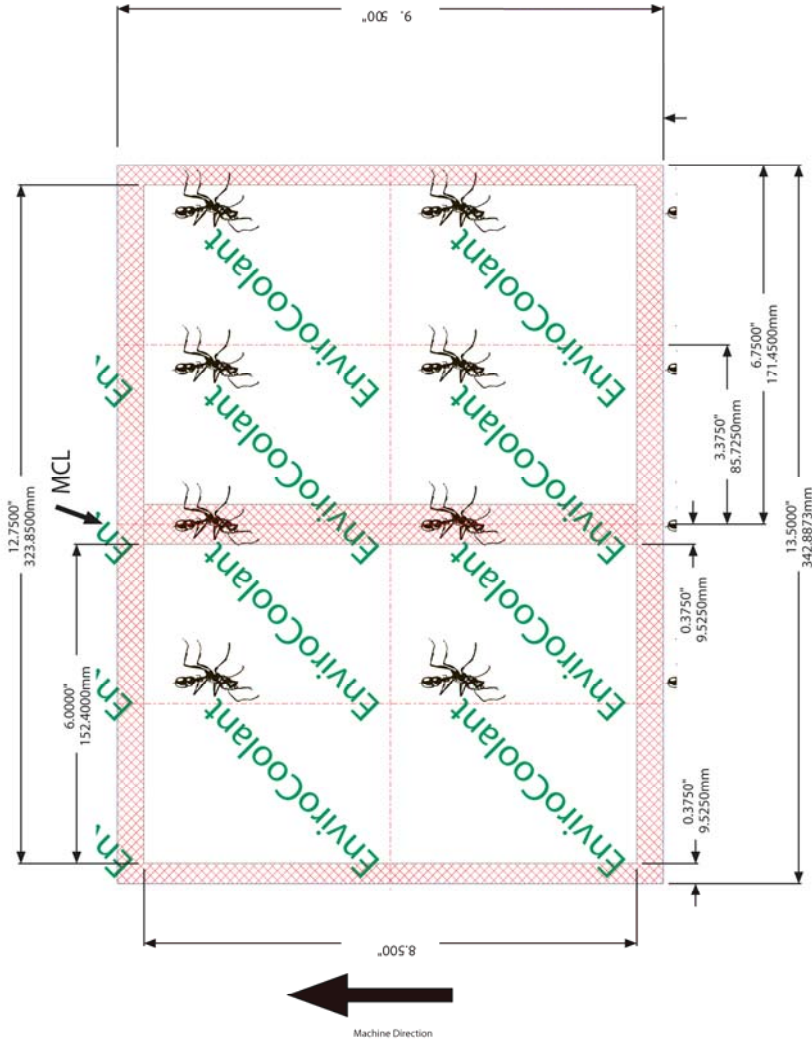
SEAL AREA
PRINT AREA
EYEBAR REPEAT

Plant	Stepped Cylinder	Index Around	Press Cylinder	FTA Distortion	Stepped
Wichita Falls					
Rochester					
Simpsontonville					
Packhall					
Sierra					

Description	Date	GMD
13.75 to 13.50 Width	2.28.08	AJB

COLOR / GRAPHICS SPECIFICATIONS

DWG #: PRO02638



Mechanical Design Specifications

MAX PRINT AREA
Width: 12.75"
Length: 9.5"
Eyepot: Cont:Print
Designer: ADB
Date: 2.26.08

DWG: PRO02638
Machine: Prodo-Pak - PR
Film Width: 13.50"
Repeat: 10.25"
Impr. Across: 2

MANUFACTURING SPECIFICATIONS

PRESS / LAMINATING SPEC.
MIN. TARGET MAX.
FINISHED GOODS SPEC.
MIN. MAX.

TEMPLATE APPROVAL

PLEASE INDICATE ANY CHANGES ON THE TEMPLATE ACCOMPANIED WITH YOUR INITIALS. PLEASE BE ADVISED THAT ANY ALTERATIONS MAY CAUSE DELAY. IF YOU MAKE ANY ALTERATIONS TO THE TEMPLATE BY SIGNING AND DATING THIS DOCUMENT WHERE INDICATED.

CUSTOMER SIGNATURE _____ DATE _____

ART APPROVAL

THIS LABEL MUST BE FILLED OUT BEFORE CRYOVAC CAN PROCEED.

RETURN THIS DOCUMENT BY: _____


O.K. AS IS. PROCEED TO PRINTING PLATES.
 CORRECTION-SEND REVISED CONTRACT PROOF.
 CORRECTION-PROCEED TO PRINTING PLATES.
 NO REVISED CONTRACT PROOF REQUIRED.

NOTATION

THIS PROOF MAY NOT MATCH ORIGINAL AND THUS SHOULD NOT BE USED FOR PRINTING. PLEASE USE THIS PROOF TO THE PANTONE MATCHING SYSTEM.

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DOCUMENT HISTORY

Number	Description of Change	Initiator	Issue Date
03042008	New	C.Derifield	04/10/2008