

TECHNICAL DATA FOR EUROPEAN CRYSTALAIR COMPRESSION PACKS

ADE, Inc. Chicago, IL

Description and Uses:

Crystalair™ Compression Packs are rigid transparent packs that contain clear conformable elastomeric membranes that gently immobilize fragile products, allowing for product visibility without exposure while providing protection from abrasion, shock, and vibration. A durable hinge and closure system allow for repeated usage without compromising product protection or pack integrity.

Composition and Structure:

The shell of each Crystalair Compression Pack is made of injection molded general purpose resin. Other resins are available for custom applications.

The membranes are made of proprietary 2 Mil film.

Product Performance Levels:

Property	ASTM Method	Typical Results
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Case Halves

Specific Gravity	D 892	1.05 gr/cc
Tensile Strength at Failure	D 638	6,200 psi
Tensile Modulus	D 638	420,000 psi
Elongation @ Failure	D 638	1%
Rockwell Hardness	D 785	71 L scale
Notched Izod Strength, 1/8"	D 256	.3 ftlbs/inch
Deflection Temperature	D648	190°F
Vicat Softening Temp.	D 1525	208°F

2 mil film Membranes

Tensile Strength	D 639	@100%	1400 PSI
		@300%	3500 PSI
		@break	7000 PSI
Elasticity:	D 638	mod. up to 10%	60 PSI
		elongation break	400 PSI
Tear Strength:	D 624	Die-cut	550 PLI
	D 1928	Split	670 PLI
Abrasion Resistance:	C 501	Weight loss	100 mg
Hardness:	D 2240	Durometer	95 A
Transparency:	Visual-Very good on contact, fair on draw		
Temperature range:	Serviceability	-40° to 200° F	
	Melting point	340° to 380° F	
Corrosivity:	Non-corrosive, chemically non-reactive		
Treatability:	Custom options include colors and antistatic. Specific request required.		

Outgassing information:

@ 248°F and above the heat and UV additives may volatilize.

@ 302°F and above any residual monomers may volatilize.

hinges and latches

Specific Gravity	D 792	0.90
Tensile Yield	D 638	4,000 psi
Ultimate Elongation	D 638	>700%
Deflection Temp.	D 648	189°F
Rockwell Hardness	D 785	80 R
Flex Fatigue:	100 90° bends/Minute- 10,000,000 min.	

General Information for Crystalair Compression Packs:

Sterilization can be accomplished by Gamma, ETO or Electron Beam processing with out loss of physical product protection or Package breakdown. Depending on the method selected, minor visible color shifts may occur in the membranes.

Custom Options

Crystalair Compression Packs can be custom printed or labeled. Contact your ADE, Inc. representative to discuss other custom options.

The information provided on this sheet has been gathered and provided in good faith based on information supplied by our Suppliers.