

ADE, Inc.

TECHNICAL DATA

Chicago, IL

Product

Description

CANCEL® 3 Amine Free ¼” REINFORCED CELL CUSHIONING MATERIAL

Description:

Cancel 3 AF Cushioning Material is a ¼” thick, top film reinforced cushioning material formulated with an Amine free antistatic additive for stress sensitive polycarbonate packaging applications.

Composition and Structure:

- **Low and linear low density polyethylene (LDPE and LLDPE).**
- **Proprietary non amine internal antistatic additive.**
- **Comprised of adjoining tapered cells that are hexagon shaped on the film (flat) side and rounded (and punctured) on the other.**

Product Forms:

<u>Form</u>	<u>Description</u>	<u>Dimension</u>
Rolls	Slit width	Min. 2” to max. 48”
	Cross perforation	Min. 6” to Max. 96” separation
	Length perforation	Min. 4” to Max. 46” separation
Sheets	Size	Min. 3” by 6”
Die-cuts	Shape and size	As specified

Product Put-ups:

<u>Description</u>	<u>Put-up</u>
Rolls	Poly-bagged bundles. 375 ft. long, by 48” wide, by 35” diameter. 1.5 MSF per bundle. Stock 4-12”, 2-24”, 1-48” or custom slits available.
Sheets	Corrugated cases typically containing about 0.5 MSF of sheets per case.
Die-cuts	Corrugated cases. Quantity per case depends on shape and size specified.

Product tolerances:

<u>Description</u>	<u>Rolls</u>	<u>Sheets</u>	<u>Die-cuts</u>
Length	+/- 5%	+/- ¼”	+/- 1/8”
Width (slit rolls)	+/- ¼”	+/- ¼”	+/- 1/8”
Width (48” bundles)	- 1/4”, + ½”		
Thickness	+/- 1/32”	+/- 1/32”	+/- 1/32”

Product attributes as measure against industry requirements:

<u>Property</u>	<u>Requirement</u>	<u>Typical Results</u>
Workmanship	must comply	complies
Heat Sealability	< 1/16” separation	no separation
Contact Corrosivity	no evidence of	no corrosion
Low Temp. Flexibility	no cracks or tears	no cracks or tears
Compression Set	< 15%	3.7%
Blocking	not acceptable	no blocking
Creep (7 day)	10% max.	7.6%

ESD Properties:

<u>Property</u>	<u>Requirement</u>	<u>Typical Result</u>
Electrostatic Decay	2.00 seconds Max.	0.62 seconds
Surface Resistivity	1 X 10(12) Max.	3.40 X 10(11) ohms/square
Shelf Life	one year minimum	exceeds requirement

Cushioning Performance (ASTM D 1596)

<u>PSI Loading</u>	<u>Peak deceleration (G's)</u>
0.25	70.9
0.40	73.6
0.60	81.5
0.90	88.3

Compliance Issues:

Based on information supplied by our suppliers and strict adherence to our manufacturing procedures we can state that Cancel ® 3 Amine Free Cushioning material does not contain Cadmium, Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyl (PBB) or Polybrominated Diphenyl (PBDE) materials that are banned per RoHS (EU) Directive and CONEG (USA) Regulations.

Polycarbonate Compatibility:

Based on testing in accordance with Method EIA 564, Cancel 3Amine Free Cushioning Material is polycarbonate compatible up to 158°F.

Effects of Solvents and Ultraviolet Rays:

Cancel 3 Amine Free Cushioning material should not be exposed to solvents such as alcohols, ketones or hydrocarbons. Contact with these solutions will, at least, temporarily remove the conductive surface. Exposure to ultraviolet rays of sunlight will cause fading of the color and prints but will not materially affect the antistatic properties.