

Green Label Plus

Healthy Buildings 2009

Syracuse, NY



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Background

- Sick building syndrome – killer carpet
- CRI started a voc testing program in 1992
- Developed in a collaborative manner with industry and government (EPA) agreeing on parameters.
- Started as Green Label which was improved 3 times before a major remake in 2007 to Green Label Plus
- The first industry VOC testing program

Background

- Once carpet program was in place started programs for adhesives and cushions
- Recognized by USGBC and Collaborative High Performance School program (CHPS), NAHB, Tools for Schools and others
- Industry confident that GLP carpet and adhesives are one if not the lowest emitting products on the market

Green Label Plus

- In response to CA 01350 – CRI undertook an initiative to revise Green Label
- Tested multiple carpets & adhesives to determine possible chemicals of concern
- CA 01350 one time test and GLP is a annual/quarterly test
- Tested IAW ASTM D5116-06 – ISO Standard which mirrors ASTM D5116-06
- Standard is 1/2 the CEL or CREL as defined by CA OHHEA

Methods and Results

- **Initial Test** - All products must meet CA 01350 (14 day test)
- **Annual test** - for the presence of the chemicals of concern (24hr test)
- **Quarterly Test** – TVOC as a quality control measure (24hr test)
- Tests conducted in an independent 3d Party highly accredited lab

Method and Results

- Carpet 13 chemicals of concern (8 on OHHEA list and 5 required by CRI)
- Adhesive 15 chemicals of concern (10 on OHHEA list and 5 required by CRI)
- CRI is the first and we believe the only **Green product ANSI certified product testing organization** – adding further creditability to our programs

Chemical of Concern - Carpet

- Acetaldehyde
- Benzene
- Caprolactam
- 2-Ethylhexanoic Acid
- Formaldehyde
- 1-Methyl-2-Pyrrolidinone
- Naphthalene
- Nonanal
- Octanal
- 4-Phenylcyclohexene
- Styrene
- Toluene
- Vinyl Acetate

These Chemical represent the universe of possible chemical and are found in all carpet. Most carpets tested only content a small % of these.

Chemical of Concern - Adhesives

- Acetaldehyde
- Benzothiazole
- 2-Ethyl-1-Hexanol
- Formaldehyde
- Isooctylacrylate
- Methylbiphenyl
- 2-Methyl-Pyrrolidinone
- Naphthalene
- Phenol
- 4-Phenylcyclohexene
- Styrene
- Toluene
- Vinyl Acetate
- Vinyl Cyclohexene
- Xylenes (m-,o-,p-)

These Chemical represent the universe of possible chemicals and are found in all adhesives. Most adhesives tested only content a small % of these

International Recognition

- Currently 78 Companies participate in GLP
 - North America -37 (US 32 CA 5)
 - South America -2
 - Europe Union - 14 (Various)
 - Asia - 24 (China 19* others 5)

*China vetted all VOC programs and selected GLP

Moving beyond Carpet & Adhesives

- CRI now has a SOA/GLP program for vacuum cleaners
- Seal of Approval (SOA) and SOA Green program for cleaning chemicals and equipment.

Conclusion

**Carpet industry very proud of it continued
environmental stewardship**

**Insuring the best possible products
meeting or exceeding the most stringent
standards in any industry**

