



**Thermal Visions, Inc.**  
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**Re: Materials of Concern (MOC) Absent from Thermal Visions Product**

**Below is a list of materials that are not part of the Thermal Visions vacuum insulation panels:**

MOC (Materials of Concern)	Amount in ppm or percentage	Location in Part or Assembly
1. Antimony Compounds (including Antimony Trioxide flame retardant, Sb <sub>2</sub> O <sub>3</sub> )	0%	
2. Arsenic (including OBPA antifungal additive)	0%	
3. Barium (water soluble)	0%	
4. Cadmium	0%	
5. Hexavalent chromium	0%	
6. Lead	0%	
7. Mercury	0%	
8. Selenium	0%	
9. Asbestos	0%	
10. Flame retardants – Brominated (including PBB, PBDE, HBCDD, TBBPA) – Identify specifically	0%	
11. Flame retardants – Non Brominated – Identify specifically	0%	
12. Anti-microbial additives (including OBPA and DMF) – Identify specifically	0%	
13. Colorants and pigments: <ul style="list-style-type: none"> <li>• Identify specifically - Any that are intended for skin, food, ice, or water contact.</li> </ul>	0%	
14. Refrigerants	0%	
15. Foam blowing agents	0%	
16. Residual monomer content in polymers <u>intended for food, ice, water or dermal contact</u> (including Acrylonitrile, Butadiene, Bisphenol-A, Formaldehyde, Styrene, and Vinyl Chloride)	0%	
17. Radioactive isotopes	0%	
18. Plasticizers in Polymers – Phthalate Based (including DOP, DEHP, DBP, BBP, DIDP, DINP, DnOP) – Identify specifically	0%	
19. Plasticizers in Polymers – Non Phthalate Based – Identify specifically	0%	

20. PVC – Polyvinyl Chloride – Rigid or Flexible	0%	
21. Short-Chain Chlorinated Paraffins (SCCP's)	0%	
22. Nanomaterials – Defined as having one or more dimensions between 1 and 100 nanometers) – Identify specific material and application	0%	

Sincerely yours,



Dwight Musgrave

President

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Guide to Acronyms Used in Materials of Concern (MOC) Table – EXAMPLES – PARTIAL LISTS		
Brominated Flame Retardants:	Antimicrobial Additives:	Phthalate Plasticizers:
<ul style="list-style-type: none"> <li>• PBB = Polybrominated Biphenyls</li> <li>• PBDE = Polybrominated Diphenyl Ethers (not –Ethane)</li> <li>• HBCDD = Hexabromo Cyclododecane</li> <li>• TBBPA = Tetrabromo Bisphenol-A</li> </ul>	<ul style="list-style-type: none"> <li>• OBPA = 10,10 Oxybis-Phenoxarsine</li> <li>• DMF = Dimethyl Fumarate</li> </ul>	<ul style="list-style-type: none"> <li>• DOP = Dioctyl Phthalate</li> <li>• DEHP = Di(2-ethylhexyl) Phthalate</li> <li>• DBP = Dibutyl Phthalate</li> <li>• BBP = Butyl Benzyl Phthalate</li> <li>• DIDP = Di-Isodecyl Phthalate</li> <li>• DINP = Di-Isononyl Phthalate</li> <li>• DnOP = Di n-Octyl Phthalate</li> </ul>
Non-Brominated Flame Retardants:		Non-Phthalate Plasticizers:
<ul style="list-style-type: none"> <li>• Sb<sub>2</sub>O<sub>3</sub> = Antimony Trioxide / Antimony Oxide</li> <li>• ATH = Aluminum Trihydrate / Aluminum Hydroxide</li> <li>• Mg(OH)<sub>2</sub> = Magnesium Hydroxide</li> </ul>		<ul style="list-style-type: none"> <li>• TOTM = TriOctyl Trimellitate</li> <li>• DINCH = Di-Isononyl CycloHexane-1,2-dicarboxylate</li> <li>• DOTP = DiOctyl TerePhthalate</li> <li>• ESO = Epoxidized Soybean Oil</li> </ul>