

Snow Business Hollywood

Material Safety Data Sheet – Display snow

Composition

'Display Snow' is manufactured from a low-density non-crosslinked foam using a totally CFC and HCFC free manufacturing process.

Potential Hazards

'Display snow' is chemically unreactive and is regarded as being biologically inert.

'Display snow' is not considered to be skin irritant.

'Display snow' should be kept away from open flames and excessive heat. It may contain traces of flammable blowing agent and should be stored in a well ventilated area.

Flammability

Ignition and burning characteristics

When Display snow is heated in air, melting will occur at 105 degrees centigrade and decomposition will commence at about 300 degrees centigrade. Above this temperature Display snow will pyrolyse oxidatively to produce carbon monoxide and water, plus small amounts of various hydrocarbons and aldehydes.

The evolved gases may ignite and if they do, they will provide heat of combustion thus accelerating the pyrolysis of more Display snow or any combustible material in the vicinity.

Carbonisation may also occur and some of the carbon is released as soot. These comments can only be of a general nature since the conditions in a real fire situation can never be fully predicted. They will depend on many factors such as the location, the oxygen availability and the presence of other flammable materials.

'Display snow' has undergone testing from two major internationally recognised centres and has been tested in accordance with the following reaction to fire test methods

MPA NRW have rated 'Display snow' **DIN EN 13501 – 1**

And formerly from Warrington Fire Research. 'Display snow' has been classified to BS 4790:1987

"When tested in according to method 1: loose laid of BS4790, has a low radius of effects ignition (up to 35mm)"

"In accordance with the class definitions given in DIN4102: Part 1: 1998 'Display snow' has been classified as Class B2 (Normalentflammbar)"

Products of combustion

The main combustion product in flaming conditions is generally carbon dioxide, though lack of oxygen or rapid extinguishing of the fire often leads to the smoke still containing appreciable quantities of carbon monoxide, acrolein and aldehydes. The pyrolysis/combustion behaviour is very similar to that of wood and other cellulosic materials though there are differences in detail.

Technical properties

	Unit	Value	Test Method
Nominal density	Kg/m ³	27	DIN 53420
Ageing resistance	Year	30	SP 0414
Working temperature range	Degrees C	+ or - 80	ISO 1798
Water absorption (after 24 hours)	% (vol)	0.7	DIN 53428
Thermal conductivity	W/mK	0.033	DIN 52612

Colour: Semi Opaque / White / Anti-Static

Environmental Advantages: Due to high performance of Display snow foam it can be reused. As with most polyethylene products the foam can easily be recycled.

Display snow polyethylene flake is manufactured by a CFC and HCFC free process.

5. Physical properties

Anti-static Display snow is formulated to prevent the generation of static electricity during handling and distribution.

The Display snow meets the following specifications:

1. Static decay – less than 2 seconds from 5,000 volts to 37 volts. Tested to US Federal test method standard 101C, method 4046, in MIL-B-81705B.
 2. Surface resistivity – less than 10 to the power of 13 ohms/square. Tested to ASTM standard D-257.
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6. Other Information

The statements in this document were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

7. Supplied by

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