
Material Safety Data Sheet – Display snow and Snowflakes

2 pages

1. Composition

'Display snow' and 'Snowflakes' are manufactured from a low-density non-crosslinked polyethylene foam using a totally CFC and HCFC free manufacturing process.

2. Potential Hazards

'Display snow' is chemically un-reactive 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.

3. Flammability

'Display snow' is a 'fire proof' snow that does not give off toxic fumes in case of fire. It has undergone testing from two major internationally recognised centres and has been tested in accordance with the following reaction to fire test methods

Material Testing Laboratory North Rhine-Westphalia

Classification of fire behaviour in accordance with DIN EN 13501 – 1

Fire behaviour Bf1 Smoke development s1 i.e. Bf1 – s1

Flame time 15 secs, spread of flame (less than) 150mm, 'Requirement met – yes'

Warrington Fire Research.

Classification of fire behaviour in accordance with 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

When Display snow is heated in air, melting will occur at 105 °C and decomposition will commence at about 300 °C. 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.

4. Transport

Packed into cardboard boxes and shrink wrapped on to treated pallets, Display snow is safe to transport by land, sea or air.

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5. Technical properties

Nominal density	27 kg/m ³	as per DIN 53420
Ageing resistance	30 years	as per SP 0414
Working temperature range	+ or – 80 °C	as per ISO 1798
Water absorption (after 24 hours)	0.7% volume	as per DIN 53428
Thermal conductivity	0.033 W/mK	as per DIN 52612
Colour:	Semi Opaque / White	

Environmental Advantages: Display snow contains as much recycled material as we can obtain from other manufacturing processes. Due to the high performance of Display snow foam it can be reused or recycled again.

6. 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.

7. First Aid

Inhalation	Remove from exposure
Skin contact	Display snow is non-irritant and non-toxic.
Eye contact	Wash effected eyes with clean water
Ingestion	Cannot be digested by the body, will not expand to 'Fill the stomach' will pass through digestive tract unaffected.

8.	Compilation date	19/10/2007	Darcey E Crownshaw
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The statements in this bulletin 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.

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