

Montage Graphix Insert

Material Safety Data Sheet



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Section 1 - Chemical Product Name:

Montage Graphix Insert

Trading as:

MGI

Product use:

Montage Graphix Insert to be used in Safety Glass Production.

When used according Montage Graphix' s directions achieves AS 2088 1996 + EN 12536-4.

SUPPLIER:

Company: Hamden Pty Ltd. Trading as Montage Graphix

ACN: 063 422 579)

Address:

Unit C3, 20 - 28 Carrington Road

Marrickville

NSW 2204

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Telephone: +61 2 9559 5500

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Section 2 - Product Specifications:

Montage Graphix Insert is a biaxially orientated film made from polyethylene terephthalate.

This product does not contain deliberate addition of cadmium.

This product is odourless, insoluble in water.

Physical Properties:

Does not mix with water.

Sinks in water.

Molecular Weight : Not Applicable

Boiling Range (°C) : Not Applicable

Upper melt temperature (°C) : 255- 260

Specific heat : 1.34KJ/Kg @ 25degrees Celsius

Thermal conductivity : 0.14 W/mk

Heat of Combustion : 23.5 MJ/Kg

Limiting oxygen index : 21 - ASTM D863

Density : 1.39 - 1.41

Flash point (Deg C) : 440 - ASTM 09129-68

Specific Gravity (water=1) : 1.1 approx.

Solubility in water (g/L) : Immiscible pH (as supplied): Not Applicable

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Property	Unit	Test Method	Typical Values		
General					
Thickness	um	GPL Method	75	100	125
Yield	m2/kgs	GPL Method	9.5	7.14	5.71
Density	gm/cc	ASTM-D-1505	1.4	1.4	1.4
Mechanical					
Tensile Strength at Break (MD/TD)	Kg/cm2	ASTM-D-882	1900	1800	1800
Elongation (MD/TD)	%	ASTM-D-882	120	130	130
Slip (COF)	-	ASTM-D-1894	0.4	0.4	0.4
Optical					
Haze	%	ASTM-D-1003	1.5	1.5	1.5
Total Luminous Transmission	%	ASTM-D-1003	89	89	89
Colour Values					
L (Min)	-	CILAB (Scale) By Hunter Lab	89.5	89.5	89.5
a (Max)	-	Colour	0.4	0.4	0.4
b (Max)	-	Spectrophotometer	2.5	2.5	2.5
Thermal					
Shrinkage @ 150oC 30min		ASTM-D-1204			
MD	%		1.1	1.1	1.1
TD	%		0.5	0.5	0.5
Melting Point	oC	DSC	255	255	255

The data that has been provided in this data sheet has been obtained using standard test procedures on defined specimens. The results should therefore only be regarded as a general guide to material properties and not as design data.

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Section 3 - HAZARDS IDENTIFICATION STATEMENT OF HAZARDOUS NATURE

Montage Graphix Insert does not contain deliberate addition of cadmium.

Montage Graphix Insert is odourless.

Montage Graphix Insert is unlikely to cause harmful effects under normal conditions of handling and use.

Montage Graphix Insert is considered stable and hazardous polymerisation will not occur.

POISONS SCHEDULE

Inhalation : Combustion of **Montage Graphix Insert** may be an irritant.

Skin contact : No evidence of irritant effects from normal use. Sharp edges may cause cuts.

Eye contact : Sharp off cuts may cause eye damage.

Ingestion : Not likely / not applicable.

Long Term Exposure : This material has been in use for many years with no adverse effects

Montage Graphix Insert is unlikely to cause harmful effects under normal conditions of handling and use.

Section 4 - Fire Fighting Measures for Extinguishing Montage Graphix Insert and Packaging:

Fire Fighting Recommendations:

Normal extinguishing media including: Foam, Dry Chemical Powder, Carbon dioxide, BCF (where regulations permit).

Water spray or fog - Large fires only.

Use water delivered as a fine spray to control fire and cool adjacent area.

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove shipping tubes from path of fire.

Potential Fire / Explosion Hazard:

Combustible but not readily ignited.

This film will shrink away from source of flame.

Persistent use of flame will ignite the **Montage Graphix Insert**

Burning will result by melting and dripping which may cause the fire to spread.

Combustion of the **Montage Graphix Insert** will evolve irritant vapours.

At complete combustion, the major by-products are Carbon dioxide and water.

At incomplete combustion, a range of products will be formed, the major by-products are Carbon dioxide and water.

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Section 5 - First Aid Measures:

Only needed for thermal burns and following inhalation of smoke from burning material. To be treated the same way as other thermal burns and wood smoke inhalation.

Inhalation	: Remove patient from exposure.
Skin contact	: If symptoms develop, obtain medical attention.
Eye contact	: Sharp off cuts may cause eye damage, obtain medical attention. : Irrigate with eyewash solution or clean water holding eyelids apart, If symptoms develop, obtain medical attention.
Ingestion	: Not likely, but if symptoms develop, obtain medical attention.

Section 6 - HANDLING AND STORAGE:

Handling:

Treat **Montage Graphix Insert** like gold - it is a substrate that can be easily damaged.
Handle **Montage Graphix Insert** with cotton gloves - prevents transfer of grease or dirt.
Montage Graphix Insert edges can cause cuts when miss-handled.
Always wash hands with soap and water before handling.
When handling DO NOT eat, drink or smoke.

Physical damage can occur to the **Montage Graphix Insert** if:

Montage Graphix Insert is dropped - can cause kinking to the substrate - Could be visible after Laminating.
Montage Graphix Insert is dropped - can cause scratching to the substrate - Could be visible after Laminating.
Montage Graphix Insert must not be dragged over surfaces, - can cause scratching to the substrate
- Could be visible after Laminating.

STORAGE REQUIREMENTS:

Store in original containers.
Keep containers securely sealed.
Store in a cool, dry, well-ventilated area.
Keep away from heat and sources of ignition.
Storage temperature should be ambient. Exposures to extreme heat and humidity must be avoided.
Prior to lamination the Montage Graphix Insert must allowed to acclimatise to the ambient conditions.

Section 7 - EXPOSURE CONTROLS:

General exhaust is adequate under normal operating conditions.
Provide adequate ventilation in warehouse or closed storage areas.

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Section 8 - Stability / Reactivity:

Hazardous decomposition of product : Above the decomposition temperature, the major volatiles will be terphthalic acid, carbon dioxide, carbon dioxide, carbon monoxide and small molecular weight alcohols / aldehydes.

Hazardous reactions : None Known, Chemically inert.

Section 9 - Disposal of Waste:

Consult State Land Waste Authority for disposal.
Recycle if possible, or dispose of at an authorised landfill.

Section 10 - Transportation Information:

HAZCHEM: None

Not regulated for transport of dangerous goods : UN, IATA, IMDG

Section 11 - Regulative information:

Poisons Schedule : None

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