

MATERIAL SAFETY DATA SHEET

Tubus Core with Polycarbonate
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CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MANUFACTURER & SUPPLIER

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PRODUCT IDENTIFIER: Tubus Core type PC
PRODUCT USE: Honeycombs for laminar airflow,
core material for sandwich panel construction and
energy absorption elements.
PRODUCT DESCRIPTION: Tubus Core

COMPOSITION/INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polymers which are not expected to be hazardous. The ingredients in this product are present within the polymer matrix and are not expected to be hazardous.

HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES : Product may cause irritation or injury due to
mechanical action.
SKIN : Tubus Core not likely to cause skin irritation.
INGESTION : Not acutely toxic.

FIRST AID MEASURES

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| EYES : | Remove contact lenses. Flush eyes well with copious quantities of water or normal saline for at least 15 minutes. Seek medical attention, if irritation persists. |
| INGESTION : | Since this material is not expected to be an ingestion problem, no first aid procedures are required. |
| INHALATION : | Not likely to be inhaled due to physical form. |
| MELT : | In case of skin contact with molten plastic, cool rapidly with water. Seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal. In case of irritation from inhalation of processing fumes, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention, even if symptoms develop at a later time. In case of skin contact with fume condensate, wash thoroughly with soap and water. If irritation develops, seek medical attention. |

FIRE FIGHTING MEASURES

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| FIRE FIGHTING : | Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water. |
| EXTINGUISHING MEDIA : | Water spray and foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit reignition. |
| HAZARDOUS COMBUSTION PRODUCTS : | Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide and hydrocarbon fragments. |
| CONDITIONS OF FLAMMABILITY : | Requires a continuous flame source to ignite and sustain combustion. |
| STATIC DISCHARGE : | Not sensitive to static discharge. |

HANDLING AND STORAGE

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| HANDLING : | Follow good standard industrial hygiene practices. |
| STORAGE : | Inert material under normal storage conditions. No special precautions required. Keep dry for optimum processing. |

PERSONAL PROTECTION

EYE/FACE : Wear safety glasses with side shields.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Solid.
ODOR AND APPEARANCE : Plastic core with slight odor.
BOILING POINT : Not applicable.
MELTING POINT : This product does not exhibit a sharp melting point, but softens gradually over a wide temperature
VAPOR PRESSURE (mmHg) : Negligible.
VAPOR DENSITY (air=1) : Not applicable.
SPECIFIC GRAVITY (water=1) : >1.
WATER SOLUBILITY : Insoluble.
% VOLATILES : Negligible.
pH : Not applicable.
ODOR THRESHOLD : Not established.
EVAPORATION RATE : Negligible.
COEFFICIENT WATER /OIL DISTR : Not established.
FLASH POINT : Not applicable.
LOWER FLAMMABLE LIMIT : Not established.
UPPER FLAMMABLE LIMIT : Not established.
AUTOIGNITION : 550 °C, estimated.

STABILITY AND REACTIVITY

STABILITY : Stable under recommended conditions of storage and handling.
REACTIVITY : Not reactive under recommended conditions of handling, storage, processing and use.

TOXICOLOGICAL INFORMATION

PRODUCT

ACUTE ORAL : Oral LD50 (Rat) >5 g/kg, estimated.

ECOLOGICAL INFORMATION

GENERAL : Not expected to present any significant ecological problems.

DISPOSAL INFORMATION

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| RECYCLING: | This product may be recycled either back into original parts or into suitable other applications. |
| WASTE DISPOSAL: | This product is not regarded as hazardous waste. Dispose in accordance with local regulations. |

TRANSPORTATION INFORMATION

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| GENERAL : | This product is not subject to transport regulations. |
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REGULATORY INFORMATION

This MSDS is designed to be in compliance with the EU Directive 91/155/EEC as amended.

This product is not considered dangerous under EU Directives 67/548/EEC as amended.

OTHER

This publication provides information and guidelines for safe handling and processing of Tubus Core and is based on currently available experience and knowledge. It is not designed as a comprehensive product performance data sheet, nor as a guide to application possibilities of our materials.

Users should follow all applicable local regulations governing Health and Safety at work, and are requested to pass this publication on to all relevant employees and customers.