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OLYMPUS
Marketing, Inc.

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Poly Klear
FIBERGLASS + RESIN**Material Safety Data Sheet**

POLYKLEAR PP Honeycomb

Product Name: POLYKLEAR PP Honeycomb**Chemical Product**

| | | | |
|------------------------------|-------------------------------------|-------------------|---------------------------------------|
| Single Product/Mixed Product | Mixed Product | Empirical Formula | CH ₂ =CH - CH ₃ |
| Product Chemical Property | Polypropylene, Polyolefin elastomer | | |

Hazardous Effects

| | | | |
|----------------------|--|---------|-----------|
| Risk | Non-toxic | Nocuity | innocuity |
| Health Effect | No toxicity or irritant action on respiratory organs under normal industrial usage | | |
| Environmental Effect | Non-toxic | | |

First Aid Measurement

| | |
|------------|--|
| Skin | No first aid is usually required. In hot product - immediately wash with cold water |
| Eye | Do not use hand wipe, lest stimulate or damage the cornea, irrigate with flowing water; if there are any abnormalities, go to the hospital for check-up. |
| Inhalation | From the scene, move to a place having fresh air once encounter difficulty in breathing- an oxygen treatment. |
| Ingestion | No acute poisoning; spit out immediately once ingested. Refer to the hospital for check-up. |

Fire Protection

| | |
|----------------------|---|
| Environmental Effect | Flammable Gas Heating decomposition |
| Extinguishing Method | Remove from the fire to empty the container as soon as possible |
| Extinguishing Agent | Fog water/Foam Powder/Sandy soil/Carbon dioxide |

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| | |
|---------|---|
| Usage | widely use d in tuck body, floor, door, boat exterior, duck, curtain walls |
| Storage | Store in a cool, ventilated warehouse. Away from fire and heat source. Should be stored apart with antioxidant. Equipped with corresponding varieties and fire equipment. |

| | |
|-------------------------|------------------------|
| Respiratory System Care | Not necessary as usual |
| Eye Care | No special requirement |
| Hand care | Wear safety gloves |
| Body care | Wear uniform |
| others | No smoking, keep clean |

Physical Property

| | | | |
|-----------------|------------|---------|---------|
| Material Status | Solid | Density | 80Kg/m3 |
| Melting Point | 240-250 °C | | |

Dangerous Situation

| | | | |
|----------------|-----|--------------------|-----|
| Incendivity | Yes | Flammability | Yes |
| Acidification | No | Chemical Stability | Yes |
| Dust Explosion | No | Stability | No |

Toxicological Information

| | | | |
|----------------|---------------------------------|-----------------------|----|
| Acute Toxicity | LD 50: No Data LC50: No data | Sub-acute and chronic | No |
| Acrimony | No | Allergenic | No |
| Teratogenicity | No | Carcinogenicity | No |

Ecological Information

| | |
|-----------------|----------|
| Ecological Info | Recycled |
|-----------------|----------|

Disposal Consideration

| | |
|------------------------|--|
| Disposal Consideration | All waste must be handled in accordance with Note on the use and storage; recycle or incineration disposal |
|------------------------|--|

Transportation

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Information

Transportation Information

be handled in accordance with the Note on the usage and storage

Regulatory Information

PP Honeycomb

No regulations applicable

Polypropylene (CAS:9003-07-0) is found on the following regulation lists DSL, WHMIS, IARC, TEELS, PELs, TSCA

The data and information contained in this Material Safety Data Sheet is provided to the best of our knowledge and ability on existing hazards, properties and handling of this product as recommended. It is recommended that the user tests the product according to its purpose. The user is responsible for the proper, safe and lawful use of this product. The information contained in this MSDS is subject to change without further notice. © 20

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POLYKLEAR PP HONEYCOMB**A. DESCRIPTION**

Polyklear PP8-80T30 PLASTIC HONEYCOMB is lightweight and high compressive strength, PP8-80T30 PLASTIC HONEYCOMB, has been widely used as the core material for truck body.

B. APPLICATIONS

As core material laminated with other panels, can be used for truck side wall, floor, doors, curtain, walls in exterior design, bed board, bathroom, etc. Light with high compressive strength, easy to assemble, waterproof, recyclable, easy repair and long service life.

High compressive strength to weight ratio

Energy absorption

Sound insulation

Heat insulation

Anti-water, corrosion resistance

Boned with face panel-FRP, have good performance in corrosion resistance to oil, salt and other chemicals.

D. PROPERTIES**Properties of PP
Honeycomb :**

| | unit | value | |
|------------------------------|-------------------|---------|---------------|
| | mm | 8 | |
| diameter | | | |
| | Kg/m ³ | 80 | |
| density | | | |
| | Mpa | 1.3 | GB/T8813-2008 |
| compressive strength | | | |
| | Mpa | 70 | GB/T8813-2008 |
| compressive modulus | | | |
| | Mpa | 0.5 | GB/T1455-2005 |
| shear strength | | | |
| | | -40~+80 | |
| effective temperature | | | |
| | W/mk,10 | 0.102 | |
| thermal conductivity | | | |

Note: base on testing data of 30mm honeycomb

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E. STORAGE

Polyklear PP8-80T30 PLASTIC HONEYCOMB should be stored in a cool, ventilated warehouse. Away from fire and heat source and should be stored apart with antioxidant.

Equipped with corresponding varieties and fire equipment

F. PACKING

Carton Packaging

SEA Olympus Marketing Inc. reserves the right to change the information given herein without prior notice. The company within the scope of knowledge, the file information accurate reliable, however, due to the actual use is not in my company's products are manageable, users have the responsibility to judge for themselves in the specific application of all risk we do not promise, the result of the use and is not liable for relevant recommendations and Suggestions are recommended in this article content using all the information, not be construed to suggest infringement of any patent or applicable laws provide sample does not contain any warnings, meaning and implication. ©20

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