

MATERIAL DATA SAFETY SHEET

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

Section 1: AUSTRALIAN COMPANY DETAILS

In Australia the product is imported and distributed by:

Bilby 3D Pty Ltd

Mailing Address : PO Box 62 BEGA NSW 2550

Head Office Address : 452 Wyndham Lane Kanoona NSW 2550

Contact Phone: 1800 847 333

Section 2: AUSTRALIAN EMERGENCY CONTACT

Emergency Contact

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue : 1 March 2020

Mayku Form Sheet 0.5mm

Material Safety Data Sheet



Information provided by the supplier:

Company Name: Dongguan Wan Su Cheng Plastic Co., Ltd.

Company Address: Building L, Shasi High-tech Park, Shajing Street, Baoan District, Shenzhen, Guangdong, China

Company Tel: 0755-81768386

Company Fax: 0755-81768380

PART 1 : Raw Material Composition – HIPS

Material name	Specification (mm)	Contains Chemical Substance	CAS Number	Percentage
HIPS	0.2 -1.5	High Impact Polystyrene	9003-53-6	99%

PART 2 : PETG Sheet Ingredients (Mixed)

Product	Material	Composition
White HIPS sheet	High Impact Polystyrene	Original rubber particles, slip agent, white dye

PART 3 : Physical and Mechanical Performance Table

Item	Standard	Unit	Value
Density	ASTM D792	(g/cm ³)	1.08
Impact strength	ASTM D256	J/M	20
Heat resistant temperature ≤	ASTM D848	(°C)	60 ° C
Deformation temperature ≥	ASTM D848	(°C)	80 ° C
Tensile Strength	ASTM D638	Mpa	42
Tensile elongation at break, %	ASTM D638	(%)	2.5

PART 4 : PETG Sheet Properties and Uses

Item	Value
Density	1.03-1.06 (g/cm ³)
Melting point	210°C-270°C
Glass transition temperature	100°C
Colour	White
Thickness	0.2mm to 1.5mm
Width	460mm~760mm
Exterior	Flat, no air bubbles, no creases, no foreign matter
Lightfastness	Yellowing in the case of three months in the sun
Use	Used for blistering, printing, packaging, etc.
Storage (use) condition	Dry, dust-free, cool, protected from light, and protected from ultraviolet rays

PART 5 : Hazard Identification Data

Emergency overview: Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

Routes of entry for hot material: Skin contact. Eye contact, inhalation

Eyes: This product is not known to cause eye irritation. However, as with any chemical, some sensitive individuals may experience eye irritation upon contact. Heated polymer: eye contact can cause serious thermal burns vapors formed when polymer is heated may be irritating to the eye.

Skin: No known acute effects of this product resulting from skin contact at room temperature. Heated polymer: skin contact can cause serious thermal burns.

Inhalation: Negligible hazard at room temperature. Nuisance dusts can be irritating to the upper respiratory tract. Irritating vapors may form when the polymer is processed at high temperatures.

Ingestion: No effects are expected for ingestion of small amounts. May be a choking hazard.

Potential chronic health carcinogenic effects: None

Mutagenic effects: Not available.

Teratogenic effects: Not available.

Medical conditions: There is no known effect from chronic exposure to this product. Repeated or prolonged aggravated by exposure is not known to aggravate medical condition

Overexposure: Overexposure not available.

PART 6: First Aid Measures

Eye contact: Rinse with water for a few minutes. Seek medical attention if necessary.

Skin contact polymer: No known effect on skin contact, rinse with water for few minutes. Heated polymer: for serious burns from heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.

Inhalation: Allow the victim to rest in a well ventilated area.

Ingestion: No first aid procedures are needed ; notes to physician not available.

PART 7: Fire Fighting Measures

Flammability: May be combustible at high temperature.

Auto-ignition temperature: 427°C

Flash points: Not available

Flammable limits: Not available

Products of combustion: Carbon oxides (co, co2) and soot

Fire hazards in presence of various materials: No specific information

Fire fighting media: Small fire: use dry chemicals, co2, water spray or foam. Large fire: use water spray, fog or foam. Do not use water jet.

Protective clothing (fire): Wear approved self-contained breathing apparatus or equivalent and full protective gear.

Special remarks on fire Hazards: Fire may produce irritating gases and dense smoke. Flowing material may produce static discharge, igniting dust accumulations.

Special remarks on Explosion hazards: Processing or material handling equipment may generate dust of sufficiently small particle size, that when suspended in air may be explosive.

PART 8: Leakage Treatment Method

Small spill: Sheets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Do not allow any plastic fragments to enter any waterway, sewer or drain.

PART 9: Handling and storage

Handling: Avoid temperatures of 600°F (316°C) or above. Handling of plastic may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small Particle size that, when suspended in air, may be explosive. Dust accumulations should be Controlled through a comprehensive dust control program that includes, but is not limited to, Source capture, inspection and repair of leaking equipment, routine housekeeping and Employee training in hazards.

Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents

PART 10: Exposure Prevention Measures

Engineering Control: Use process enclosures, local exhaust ventilation, or other engineering controls to keep Airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Respiratory protection: Ventilation is normally required when handling this product at high temperatures. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Thermally insulated gloves required when handling hot material.

Eye protection: Protective goggles

Skin and body protection: Long-sleeved overalls and safety shoes.

Hygiene measures: Wash hands thoroughly after work.

PART 11: Stability and Reactivity

Stability and reactivity: The product is stable. Avoid temperatures of 600°F (316°C) or above.

Conditions of instability: Not available.

Incompatibility with various substances: Reactive with strong oxidizing agents.

Hazardous decomposition products: Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons. Exposure of polystyrene to extremely high temperatures (600 deg f or higher) may cause partial decomposition. Chemicals that may be released include styrene Monomer, benzene, and other hydrocarbons.

Hazardous polymerization: None

PART 12: Toxicity Data

Toxicity to animals: Ld50: not available. Lc50: not available

Chronic effects on humans: Carcinogenic effects: classified none by ntp, none by OSHA. 3 (not classifiable for human.)

Other toxic effects on humans: Not considered to be dangerous for humans according to our data base

Special remarks on toxicity to animals: No additional remark.

Special remarks on chronic effects on humans: No additional remark.

Special remarks on other Toxic effects on humans: No additional remark.

PART 13: Ecological Information

Ecotoxicity: Not available.

Bod5 and cod: Not available.

Biodegradable/oced: Not available.

PART 14: Disposal Methods

Disposal method: Discard according to the government's waste storage and disposal methods and facilities standards. Recycle where possible.

PART 15: Transport Information

International shipping regulations: None

UN number: None

Domestic shipping regulations: None

Special shipping methods and precautions: Sun protection, anti-ultraviolet light, avoid moisture

PART 16: Regulatory Information

Applicable regulations:

This product is not a "hazardous chemical" as defined by the osha

Specific state and local regulations should be consulted to determine if there are any additional requirements.

Clean air act (caa) 112 regulated toxic substances: no products were found.

Whmis (canada) not controlled under whmis (canada).

Cepa dsl: polystyrene (general purpose)

Einecs not available.

Dscl (eec) not controlled under dscl (europe).

Wan Su Cheng Plastic Co., Ltd.



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