	Dongguan Imai Intelligent Technology Co.,Ltd	Document and Revision Number	ICRF011 REV-02
	Material Safety Data Sheet	Revision Date	2022.12.01

## MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

<b>Product name</b>	IEMAI 3D printing filament	<b>Product code</b>	GF-PEEK
<b>Product use</b>	A filament to be used in 3D printing applications.		

**Revision Date:** 01/12/2022

**Manufacturer / supplier:**

Dongguan Imai Intelligent Technology Co.,Ltd

**Address:**

3 / F, Building C, Kanghuier Industrial Park, 178 Yongjun Road, Shuilang, Dalingshan Town,  
Dongguan City, China.

**Responsible / issuing person:**


info@iemai3d.com

**Emergency telephone numbers:**

+86-769-83060912

### 2. HAZARDS IDENTIFICATION

**Possible hazards:**

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Danger of burns while handling the hot product.

**Other hazards:**

No specific dangers known, if the regulations / notes for storage and handling are considered.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical name:** Poly(ether-ether-ketone)

**CAS number:** 31694-16-3

**Weight:** >99.5%

**Remarks:** No hazardous ingredients.

### 4. FIRST AID MEASURES

**Inhalation:**

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.


**Skin contact:**

Areas affected by molten material should be quickly placed under cold running water.

Burns caused by molten material require hospital treatment.

**Eye contact:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek immediate medical attention.

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**Ingestion:**

Rinse mouth and then drink plenty of water. If difficulties occur, seek medical attention.

**Most important symptoms and effects, both acute and delayed symptoms:**

No significant reaction of the human body to the product known.

**5. FIRE- FIGHTING MEASURES**

**Suitable extinguishing media:**

Water spray, dry powder, foam, carbon dioxide.

**Special hazards arising from the substance or mixture:**

Carbon dioxide, carbon monoxide and unburned hydrocarbons (smoke).

**Special protective equipment:**

Wear a self-contained breathing apparatus.


**Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Ensure adequate ventilation. Use personal protective equipment. Sources of ignition should be kept well clear.

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**Environmental precautions:**

Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up:**

Sweep / shovel up. Avoid raising dust. Ensure adequate ventilation.

**Reference to other sections:**

Information regarding exposure controls / personal protection and disposal considerations can be found in section 8 and 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Provide for appropriate exhaust ventilation and dust collection at machinery.

The material can accumulate static charge and can therefore cause electrical ignition.


Wear personal protective equipment.

**Protection against fire and explosion:**

Avoid dust formation. Dust can form an explosive mixture with air. Provide exhaust ventilation. When the product is ground (chopped), dust explosion regulations should be noted.

**Conditions for safe storage, including any incompatibilities Further information on storage conditions:**

Protect against moisture. Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open

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flame.

**Specific end use(s):**

For the relevant identified use(s) listed in section 1 the advice mentioned in this section 7 is to be observed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures:**

Provide sufficient air exchange and /or exhaust in work rooms.

Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Apply measures to prevent dust explosions.

**Respiratory protection:**

Effective dust mask. In the case of vapor formation use respirator with an approved filter.

**Hand protection:**

Use additional heat protection gloves.

**Eye protection:**


Safety glasses with side- shields (frame goggles).

**Body protection:**

Body protection must be chosen depending on activity and possible exposure,

e. g. apron, protecting boots, chemical- protection suit.

**General safety and hygiene measures:**

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Avoid contact of molten material with skin. Avoid inhalation of dusts / mists / vapors.

Eye wash fountains and safety showers must be easily accessible.

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Filament.

**Color:** Natural.

**Odour:** Specific odor.

**Odor threshold:** Not determined.

**pH Value:** Not soluble.

**Melting temperature:** 345 °C

**Boiling point/Boiling range:** Not determined.

**Flash point:** Not determined.

**Flammability:** No data available.

**Lower explosion limit:** The product is not explosive at itself, but it may form explosive dust.


**Upper explosion limit:** No data available.

**Vapor pressure:** Not determined.

**Density:** 1.28g/cm<sup>3</sup>.

**Relative vapor density:** Not determined.

**Solubility in water:** Not determined.

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**Ignition temperature:** No data available.

**Decomposition temperature:** No data available.

## 10. STABILITY AND REACTIVITY

### Reactivity:

No hazardous reactions if stored and handled as prescribed / indicated.

### Chemical stability:

The product is stable if stored and handled as prescribed / indicated.

### Conditions to avoid:

Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame. Avoid moisture.

### Incompatibility:

No data available.

### Hazardous decomposition products:

### Possible thermal decomposition products:


Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

No data available.

### Irritation:

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No irritation is expected under intended use and appropriate handling.

**Respiratory / skin sensitization:**

May cause irritation of respiratory tract.

**Germ cell mutagenic:**

No data available.

**Carcinogenicity:**

No data available.

**Reproductive toxicity:**

No data available.

**Repeated dose toxicity and specific target organ toxicity (repeated exposure):**

No data available.

**Other relevant toxicity information:**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**12. ECOLOGICAL INFORMATION**


**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bio accumulative potential:** No data available.

**Mobility in soil (and other compartments if available):** No data available.



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**Results of PBT and vPvB assessment:** The product contains no components considered to be either persistent ,bio accumulative and toxic(PBT),or very persistent and very bio-accumulative (vPvB) at levels of % or higher.

**Additional information:** Should not be released into the environment.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Must be disposed of or incinerated in accordance with local regulations.

**Contaminated packaging:** Uncontaminated packaging can be recycled.

### 14. TRANSPORT INFORMATION

**UN number:** Not classified as a dangerous good.

**UN proper shipping name:** Not classified as a dangerous good.

**Transport hazard class(es):** Not classified as a dangerous good.


**Packing group:** Not classified as a dangerous good.

**Environmental hazards:** Not classified as a dangerous good.

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations / legislation specific for the substance or mixture:**

If other regulatory information applies that is not already provided elsewhere in this safety data

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sheet, then it is described in this subsection.

**Chemical safety assessment:**

Chemical Safety Assessment not required. Product is

not classified as hazardous.

**16. OTHER INFORMATION**

The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.