

MATERIAL SAFETY DATA SHEETS

Product and Manufacturer Identifications

- 1.1 Product Name:** Dental Sheet
- 1.2 Manufacturer Name:** Sichuan Yaqi Medical Technology Co., Ltd.
- 1.3 Address:** 1-1-6&2-1-6, Unit 2, Building 3, No. 222, Third West Section, Outer Ring Road, Yanjiang District, Ziyang City, Sichuan Province, China
- 1.4 Post Code:** 641300
- 1.5 Emergency Contact Tel.:** 028-26322298
- 1.6 Fax:** 02826675887
- 1.7 Email:** info@4adent.com

Hazard Description

- 2.1 Hazard Category:** None (According to GB13690 "Classification and Marking of Commonly Used Hazardous Chemicals").
- 2.2 In-taking Pathways:**When used under normal conditions, the material is solid and cannot be inhaled. However, the dust which is generated during processing may be sucked into the respiratory tract or contact with the eyes.
- 2.3 Healthy Hazards:** The material itself does not contain harmful substances; While the dust and smoke which are generated during processing, may have irritating effects on the eyes, skin and respiratory tract, and the molten materials may cause burns.
- 2.4 Environmental hazards:** no impact.
- 2.5 Explosion hazards:**inflammable

Main Components

Product name	Model	Product Composition	Hazardous Substance	CAS Number
Dental Sheet	YQ-C	Thermoplastic polyurethane 30-70% and polyethylene terephthalate-1, 4-cyclohexane dimethyl alcohol 40-60%	No harmful substances	25640-14-6 9009-54-5

First-aid Measures

- 4.1 Skin Contact**
The material does not contain harmful substances. It does not cause danger when contacting the skin, but do not touch the sharp edges of the material to avoid scratching the skin. If there is a slight scratch, you can simply disinfect and bandage it. If the skin is injured by the melting material, it can be cooled immediately with cold water. Do not try to remove the melting material from the skin in a hurry. It is recommended to use a scalding drug for a immediate treatment. If the condition is serious, it is recommended to see a doctor.
- 4.2 Eye Contact**
Separate the eyelids, wash the eyes by running water or saline. Seek medical attention immediately.
- 4.3 Inhale**
If it is exposed to gas and smoke generated by overheating of materials or dust generated during processing, it may irritate the upper respiratory tract. It is recommended to use a mask; if there is any discomfort, you need to transfer to an area with sufficient fresh air. Seek medical attention if any symptoms occur.
- 4.4 Ingestion**
Seek medical attention.

Fire-fighting Measures

- 5.1 Special Hazards**
When a continuous fire source is ignited, it will burn and generate heat when it burns.
- 5.2 Hazardous Combustion Substances**
Thermal decomposition produces flammable gas.
- 5.3 Extinguishing Methods and Extinguishing Agents**
Extinguish the fire with dry powder extinguishing agent.
- 5.4 Fire Fighting Precautions and Protective Measures**
According to the Class B of firefighting treatment: evacuate the crowd; extinguish fire in the upwind direction by wearing gas masks and full-body fire protection clothing.

Accidental Release Measures

- 6.1 Emergency Treatment**
The finished products are presented in the form of solid, and there is no risk of leakage. If the melting materials leak, evacuate the crowd, cut off the power supply, prevent the source of a fire, and the leaked materials can be collected after cooled by the water spay
- 6.2 Notes**
Refer to Section 8 for special situation measures.
- 6.3 Disinfection Method**
Collect materials, put them in suitable containers and transfer to a safe place.

Handling and Storage

- 7.1 Precautions for Safe Handling**
 - 1) Keep away from fire and heat sources, smoking is strictly prohibited in the workplace.
 - 2) Equipped with the corresponding variety and quantity of firefighting equipments and leakage emergency treatment equipments.
 - 3) Operators shall get professional training before operating and shall be strictly abide by operating procedures.
 - 4) The materials are stored under normal storage conditions. Handle them slightly to prevent the packages from damage.
- 7.2 Precautions for Storage**
 - 1) Store in a cool, dry, ventilated place.
 - 2) Keep the package sealed to prevent moisture absorption and contamination.
 - 3) Keep away from source of a fire and heat.
 - 4) Avoid dust accumulation and avoid contact with corrosive chemicals, oxidants, especially alkaline chemicals.

Exposure Controls/Personal Protection

- 8.1 Maximum Allowable Concentration**
None.
- 8.2 Monitoring Method**
None.
- 8.3 Engineering Control**
Provide good ventilation conditions to exclude smoke and dust generated during processing.
- 8.4 Respiratory System Protection**
In the process, dust and fumes are generated, the use of masks is required.
- 8.5 Eye Protections**
In the process, wear protective glasses to avoid high-temperature material melt, smoke, dust or sharp corners to hurt the eyes.
- 8.6 Body Protections**
No harm to the skin under normal conditions, but long-sleeved overalls are recommended.
- 8.7 Hand Protections**
Use heat-resistant gloves when melting.
- 8.8 Other Protections**
Wash hands thoroughly after work.

Physical and Chemical Properties

Size	Allowable tolerance range of thickness $\pm 0.1\text{mm}$, allowable tolerance range of diameter $\pm 2\text{mm}$
Exterior	Smooth surface without visible impurities and foreign matter
Smell	Odorless
Density	No more than 2.6g/cm^3
Tear resistance	More than 1000N/cm
Thermal stability	The mass loss of the product under the prescribed test conditions shall be less than $0.25\text{g}/1000\text{r}$.
Wear resistance	The tensile modulus should be between $500\sim 3000\text{MPa}$
Tensile Modulus of Elasticity	the flexural modulus is not less than 600MPa
Pull attenuation	It should not exceed 75%
Hardness	Shore hardness does not exceed 90HD

Stability and Reactivity

10.1 Stability

This product is stable when stored and used under normal ambient temperature.

10.2 Contraindications

This product is not resistant to alkaline substances

10.3 Conditions to avoid

Avoid sunlight or ultraviolet radiation; avoid long-term high-temperature storage or processing, which will deform the material; and avoid dust and dirt.

10.4 Hazard of polymerization

Cannot happen.

Toxicological Information

11.1 Vitro Cytotoxicity: no cytotoxicity

11.2 Subchronic Systemic Toxicity: no subchronic systemic toxicity.

11.3 Oral Mucosa Irritation: no irritant

11.4 Skin Sensitization Test: no skin sensitization.

11.5 Genotoxicity: no genotoxicity.

Ecological Information

12.1 Ecotoxicity: The polymer film does not harm the surrounding environment, and its influence on the physical environment is inert and mild.

12.2 Biodegradability: No biodegradation.

12.3 Non-biodegradable: Degradation occurs under long-term multi-factor environmental factors (such as light, oxygen, heat, humidity, chemical media, etc.).

Disposal Considerations

13.1 Nature of Waste

Solid waste.

13.2 Waste Disposal Measures

Recycling.

13.3 Disposal Considerations

Please refer to relevant national and local regulations before disposal. And disposal personnel safety precautions see section 8.

14. Transport Information

14.1 Dangerous Goods Number

Not applicable (according to GB6944-2012 "Classification of Dangerous Goods and Product Name Numbering").

14.2 UN Number

Not applicable (according to the number specified in the UN "Recommendation on the Transport of Dangerous Goods").

14.3 Packing Mark

None (according to the degree of danger of dangerous goods).

14.4 Packing Category

Not applicable (according to GB/T 15098-2008 "Dangerous Goods Transport Packaging Classification Principles").

14.5 Packing Method

Not applicable (according to the provisions of the UN "Recommendation on the Transport of Dangerous Goods").

14.6 Precautions During Transportation

Avoid moisture, heat, dust accumulation and excessive accumulation, and avoid contact with oxidants and strong alkalis.

Regulatory Information

15.1 Not applicable to China's "Regulations on the Safety Management of Chemical Dangerous Goods".

15.2 This product is not applicable to the United Nations "Globally Harmonized System of Classification and Labeling of Chemicals" and the European Union's "Regulations on the Classification, Labeling, and Packaging of Chemicals" (REGULATION (GN) No1272 / 2008).

15.3 This product complies with EU 2002/95 / EC (RoHS Directive) and China SJ / T11363-2006 "Limit requirements for toxic and hazardous substances in electronic information products" on the limits of lead, mercury, cadmium, hexavalent chromium, PBB and PBDE Claim.

15.4 Under normal or reasonable foreseeable circumstances, the substances in the product will not be intentionally released or leaked. There are no SVHC substances published in the EU REACH regulation added or used in this product.

Other Information

16.1 Information on Revision

Revision	1.0
Revision Date	November, 2022
Revision Department	Sichuan Yaqi Medical Technology Co., Ltd.
Audit Unit	Sichuan Yaqi Medical Technology Co., Ltd.

16.2 Other Information

The data in this document is only responsible for the product varieties in this document, and does not include the case of mixed use with other products. This document is based on existing experience and knowledge to provide information on the safe use of this product. Users shall comply with all health and safety regulations applicable to industries and regions, and this document is required to be transmitted to all relevant staff and customers.