

Spraysil Eco

Technical Data Sheet

RTV2 Silicone Rubber

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Product Description

Spraysil Eco is two-component room temperature curing silicone rubber with high strength and excellent performance. It has the characteristics of very low viscosity, good fluidity before forming and excellent performance after curing. Maintain excellent performance at -50℃~200℃ for a long time. It can be used to prepare cultural stone, chocolate, candy and other handicraft molds.

Product Features

- Very low viscosity fit for making mold
- Excellent leveling, The details and patterns of the best exquisite products will be copied.
- Excellent tensile and tear strength
- Low linear shrinkage
- 100% curing, without curing by-products
- Excellent temperature resistance, operation temperature - 50℃ to 200℃,
- FDA food grade
- Easy to demoulding

Typical Applications

- Suitable for mass molding of various products. Such as handicrafts, furniture, architectural elements, garden decorations, shoes, tires, soaps, candles, vacuum bags, wind turbine blades, ships/hulls, aircraft hulls, FRP pipes/profiles, lighthouses, automotive and military industries, etc.

Technical Parameter

Reference Standards	Property	Unit	Value
General Properties at 25±2℃			
Visual	Appearance (A)	/	Translucent
	Appearance (B)	/	Translucent
ASTM D1084	mixed viscosity	mPa.s	3000±1000
Operation Properties at 25±2℃			
Enterprise standard	Operation Time	min	30-60
Enterprise standard	Cure Time	h	3-6
Properties After Curing			
ASTM D2240	Hardness	Shore A	20±2
ASTM D412	Tensile Strength	MPa	6 ±1
ASTM D412	Elongation at break	%	≥500
ASTM D624	Tear Strength	KN/m	16+5/-2
1. The mixing rate(by weight): A: B=1:1			

Notice

The silicone will be delaminated during storage, and it will be stirred evenly before mixing, which will not affect product properties.

Operating Instructions

Mixing: Mix the components A and B in the ratio of 1:1. Note: 1. The weight of a and B should be accurately weighed on the electronic scale, and the weight of A and B components should be 1:1. Otherwise, the hardness will change and the operation time. 2. Mix A and B components well, otherwise partial curing will be incomplete.

Vacuum defoaming: ① this step is not necessary, if any, it is better that will exhaust all the air in the mixture to ensure that there are no bubbles in the finished mold. ② The vacuum time should be completed within 10min, otherwise it will affect the next operation.

Pouring: Note: after casting, it is recommended to demould at room temperature for 12h to avoid failure of demoulding due to incomplete curing, or heating to speed up curing and improve efficiency, 15min-30min at 80 ℃.

Storage conditions

Store in a cool and dry place below 30 ℃.
Shelf life: A: 12 months
B: 12 month

Packaging specifications

A: 20kgs/barrel B: 20kgs/barrel Combination: 40kgs /Pair

Attention:

1. Keep away from children.
2. It is recommended to use it in a well-ventilated area to reduce odor.
3. If accidentally touch the skin or eyes, wipe them clean immediately, then rinse with water and seek medical advice.
4. For safety information, please refer to the Material Safety Data Sheet (MSDS).

Matters needing attention:

1. This product belongs to the additive forming and curing silicone rubber. The following substances will affect or hinder the curing of the product:
Compounds containing tin (Sn²⁺), lead (Pb²⁺), mercury (Hg²⁺) and other heavy metal ions; Organotin and silicone glue containing organotin; Organic compounds containing N, S and P; Some unsaturated carbon and hydrogen plasticizers.
2. The two-component mixed glue needs to be used up within the operating time, otherwise it will be preliminarily cross-linked and solidified, resulting in increased viscosity and unable to be used.