Product technical specifications

Technical Data Sheet

Product and company description

Chemicals Chinese name:
Washed resin
Model: LCD washing resin
Applicability: Applicable to the jewelry industry, dental, clocks, glasses, teaching and scientific research, toy design, handicraft design, industrial zero
Design
Manufacturer / Supplier: Shenzhen Yongchanghe Technology Co., Ltd.
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Product characteristics:

1. Short curing time, no deformation during molding, smooth surface and high precision.
2. After printing, the workpiece can be rinsed directly with water without sticking hands.
2. The finished product has certain toughness.

Technical parameters:

1. Viscosity: 100-350MPa · s (NDJ-8S Rotary Viscometer (25 ° C))
3. Absorption band: 385nm-410nm
4. Density: 1.05-1.25g / cm
3 (density meter (25 ° C))

Method of use

The water-washed resin cured product is cured layer by layer through a UV high-resolution projector, so that
Create a 3D printed object. Molding process: The LCD device contains a liquid tank that can hold resin for holding
Resin, LCD imaging system is placed under the liquid tank, and its imaging surface is located at the bottom of the liquid tank. It is controlled by energy and graphics.

A thin layer of resin (50μm / 25μm) of a certain thickness and shape can be cured each time
Face shape is exactly the same). A lifting mechanism is set above the liquid tank, and it will lift upwards after each cross-section exposure is completed.
Degree (the height is consistent with the thickness of the layer), so that the solidified resin that is currently cured is separated from the bottom of the liquid tank and bonded

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Lift the plate or the resin layer that was molded last time, so that the three-dimensional solid is generated by layer-by-layer exposure and lifting, and finally get
After curing, the cured resin is washed with water, and the cured product is washed with water and then dried with cold air.

V. Parameters after molding:

1. Bending modulus: 1.882-2.385Mpa
2. Bending strength: 40-70MPa
3. Thermal deformation temperature: 80 ℃
4. Thermal expansion coefficient: 95 * E-6
5. Volume shrinkage: 3.72-4.24%
6. Linear shrinkage: 1.05-1.35%
7. Tensile strength: 30-52MPa
8. Tensile modulus: 1.779-2.385MPa
9. Stretch rate: 120%
10. Shore hardness: 80-85D
11. Glass transition temperature: 100 ℃
12. Density: 1.05-1.25g / cm3
13.Notched impact strength 41-48j / m

Six, matters needing attention:

1. This product is for single use and cannot be reused.
2. This material should not come in contact with eyes, skin, or clothing, and should not be tasted or ingested. Use only with good ventilation.
Please pay attention to air circulation and take protective measures. Wash thoroughly after handling.
3. The product is in a liquid state and has a slight odor. Wear a mask when using to avoid inhalation of aerosols and cause infection.
4. The product should be stored in a sealed container, sealed after use, and placed in a dry and well-ventilated place, and should not be exposed
In the sun.
5. If accidentally inhaled, leave the scene in time and seek medical treatment.
6. If you accidentally touch the skin, wash the skin with soapy water and clean water or consult a doctor.

7. If you accidentally touch your eyes, immediately open your eyelids, rinse with soap and water for about 20 minutes and seek medical attention in a timely manner.
8. If inhaled or swallowed accidentally, do not induce vomiting, keep a rest, and send it to the hospital for treatment in time.
9. Dispose of waste in accordance with local environmental regulations.

Seven, storage:

Store the product in a dry, ventilated, non-corrosive gas room. Do not store in a place exposed to sunlight and humidity. Shelf life 1
year. **(** Resin works best when stored at **25-30** degrees **)**