Technical Data Sheet

Product

S-ST9001 ABS-like Resin

Product Description

S-ST9001 is an ABS like SLA resin which has accurate and durable features. It is designed for solid state SLA platforms. S-ST9001 can be applied in master patterns, concept models, general parts and functional prototypes in the field of automotive, medical and consumer electronics industries

Typical Features

- -Liquid resin's medium viscosity, so easy recoating, easy clean parts and machines
- -Improved strength retained, improved dimensions retention of parts in humid condition
- -Need minimal part finishing
- -Long shelf life in machine

Typical Benefits

- -Need less part finishing time, easier post-curing
- -Building accurate and high tough parts with an improved dimensional stability
- -High quality controls for vacuum casting parts
- -Low shrink and good resistance to yellowing
- -Magnificent white color
- -Outstanding machinable SLA material

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Safety

When handling and processing these products, mandatory and recommended industrial hygiene procedures and related industrial safety precautions must be followed. The product is sensitive to the humidity of the environment. For related information, please refer to the Material Safety Information Sheet of the material.

Precautions

These technical information data are based on our current knowledge and experience. Taking into account that many factors may affect the processing and application of our products, these data do not exempt processors from their own investigation and testing responsibility; These data do not imply any guarantee for certain characteristics, nor does it imply the suitability of the product for a specific purpose. Any description, drawings, photos, data, proportions, weights, etc. can be changed without prior information and do not constitute the agreed contract quality of the product. The recipient of the product is responsible for ensuring any proprietary rights and compliance with existing laws and regulations. The safety data provided in this publication is for reference only and does not constitute a legally binding chemical safety data sheet. The safety data sheet of the relevant materials can be obtained from your supplier or contact us at info@soonser.com.

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Technical Parameters

Physical Properties – Liquid Material

Appearance	White
Density	1.11-~1.15g/cm3 @ 25 °C
Viscosity	275~355 cps @ 27 °C
Dp	0.135~0.158 mm
Ec	8.3~9.1 mJ/cm2
Building layer thickness	0.05~0.12mm

Mechanical Properties of Post-Cured Material

TEST METHOD	VALUE
	90-minute UV post-cure
ASTM D 2240	78~87
ASTM D 790	2,712-2,791
ASTM D 790	69- 75
ASTM D 638	2,649-2,731
ASTM D 638	41-58
ASTM D 638	8-12%
ASTM D 638	0.4-0.44
ASTM D 256	32 - 38
ASTM D 648 @66PSI	58~69
DMA,E" peak	62~75
TMA(T <tg)< td=""><td>90~103*E-6</td></tg)<>	90~103*E-6
	1.12~1.18
ASTM D 150-98	4.2~5.0
ASTM D 150-98	3.3~4.2
ASTM D 150-98	3.2~4.0
ASTM D 1549-97a	12.8~16.1
	ASTM D 790 ASTM D 790 ASTM D 638 ASTM D 256 ASTM D 648 @66PSI DMA,E" peak TMA(T <tg) 150-98="" 150-98<="" astm="" d="" td=""></tg)>

Note: The use and storage temperature of S-ST9001 should not be too high. Please use it below 25 degrees Celsius; The relative humidity for use and storage of S-ST9001 must be below 38RH%.

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