

Technical Data Sheet

SC-GR355

UV Light Curable, ABS-like General Purpose Resin

Version: 1.1

Product Description

Introducing SC-GR355: a robust ABS-like resin engineered specifically for 355nm Solid State Laser Systems. Crafted for both general-purpose and intricate builds requiring dimensional precision, this resin offers exceptional toughness and dimensional stability. Its low viscosity, coupled with outstanding re-wetting properties, ensures swift build times, thereby enhancing overall productivity.

Advantages

- Thin walls and fine features
- Dimensional accuracy and stability
- Low viscosity
- Fast build times
- Built for 355nm Solid State Laser Systems



Typical Wet Properties

Property	Typical Value
Viscosity	290 cps
Density	1.12 g/cm ³
Appearance	Grey Liquid
Ec	10.6 mj/cm ²
Dp	6.6 mils

Typical Cured Properties

Property	Test Method	Typical Value
Shore D Hardness	ASTM D2240	81 D
Tensile Strength	ASTM D638	54 MPa
Tensile Modulus	ASTM D638	2920 MPa
Elongation at Break	ASTM D638	4 - 6%
Flexural Strength	ASTM D790	85 MPa
Flexural Modulus	ASTM D790	2670 MPa
Impact Strength (Notched Izod)	ASTM D256	18.6 J/m
Heat Deflection Temperature @ 264 psi	ASTM D648	50°C
Heat Deflection Temperature @ 66 psi	ASTM D648	54°C
Water Absorption	ASTM D570-98	0.25%



Storage and Handling

- SC-GR355 has a maximum shelf life of twenty-four months if left in an unopened container and stored at 25°C.
- SC-GR355 is sensitive to UV/Visible light. Therefore, material should always be stored in tightly sealed, UV-resistant containers away from sunlight and under cool dry conditions.
- For industrial use only. Users should review the Safety Data Sheet (SDS) prior to handling.

Disclaimer

The materials in this brochure are not intended for use in products which would be regulated by the Food and Drug Administration (FDA) unless the finished product is tested in accordance with the applicable safety requirements. Spectra Photopolymers is not able to recommend these materials for such uses and assumes no liability for any such use. Technical advice furnished by the seller shall not constitute a warranty or condition, statutory or otherwise, which is expressly disclaimed, all such advice being given and accepted is at the buyer's risk. Data and results that the user or buyer achieves may differ. Optimization, scale-up and product performance are the responsibility of the buyer or user.