



# Technical Data Sheet

## 3DLite® 308-BCGP Red

### Bio Compatible 3D Print Resin (DLP)

#### DESCRIPTION

3DLite® 308-BCGP Red is a well-balanced performance resin with certified biocompatibility for skin contact. Uniquely formulated for medical and wearable device prototyping and other high performance applications where extremely smooth surface quality and consistent repeatability are required.

#### FEATURES

- Well-balanced resin for medical & wearable device prototypes
- Biocompatibility Certified for long-term skin contact (ISO 10993-5:2009, Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity, and ISO 10993-10:2010, Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization (GPMT))
- Extremely smooth surface with minimal post processing
- Excellent durability & stability
- High print resolution
- No additional thermal cure post processing required

#### RESIN PROPERTIES

3DLite® 308-BCGP	METRIC	METHOD
Tensile Strength	47 MPa	ASTM D638
Tensile Modulus	2.1 GPa	ASTM D638
Elongation	6%	ASTM D638
Flexural Strength @ max. load	74 MPa	ISO 178
Flexural Modulus	1.9 GPa	ISO 178
IZOD Impact Strength (notched)	13 J/m	ASTM D256
IZOD Impact Strength (unnotched)	161 J/m	ASTM D4812
Heat Deflection Temp @ 1.80 MPa	46 °C	ISO 75
Heat Deflection Temp @ 0.45 MPa	68 °C	ISO 75
Shore D Hardness	85	ASTM D2240
Glass Transition Temperature	93 °C	DMA
Viscosity	1400 CPS	Brookfield viscometer @ 25 °C
Specific Gravity	1.13 g/cm <sup>3</sup>	ASTM D792

1. Material properties can vary with part geometry, print orientation, print settings and temperature.
2. Data was obtained from parts printed using B9Creations B9 Core 550 (b9c.com), washed in IPA for 20 minutes and post-cured with Form Cure at room temperature for 60 minutes.

To the best of our knowledge the information contained herein is accurate. However, SDC Technologies, Inc. makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof.



## 3DLite® 308-BCGP Red

Biocompatible 3D Print Resin (DLP)

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### STORAGE AND USE

Store 308-BCGP Red in closed, properly labeled containers. Do not store in colorless glass containers or other containers that transmit UV light. Do not pad containers or pressurized vessels using nitrogen. Use of nitrogen may cause premature gelling. Avoid sunlight and other sources of UV light. Store at ambient temperatures less than 75°F/24°C. When stored at this temperature in the original closed container, it is recommended to use Apollo Red within 12 months from date of manufacture. Keep away from ignition sources.

### HEALTH AND SAFETY INFORMATION

Before using this product, read and understand the Safety Data Sheet, SDS, which provides information on health, physical, and environmental hazards, handling precautions and first aid recommendations. For a copy of an SDS, contact a sales or customer service representative.

### WARRANTY AND LIABILITY LIMITATIONS

Information contained herein is accurate to the best of our knowledge. The coating solution properties and cured coating properties listed herein represent typical values for 308-BCGP Red and are not meant as specifications. SDC Technologies, Inc. insists that users conduct their own tests for applicability and fitness for any purpose. Statements concerning use of products or formulations described herein shall not be construed as a warranty or license to infringe any patent or trademark, and no liability for infringement arising out of such use is assumed. Please refer to SDC Technologies' Standard Terms and Conditions or to your Purchase Agreement with SDC for the warranty coverage of SDC's product.

### PRODUCT SHIPPING AND AVAILABILITY

Typical lead-time for shipment of 308-BCGP Red is four (4) weeks from confirmation of a purchase order. SDC provides several shipping options. Please contact an SDC representative to determine which option best fits your needs.

Certified to ISO 9001:2015 and ISO 14001:2015