

# **Technical Data Sheet**

# **3DLite**<sup>®</sup> 347-FR Black

## Flame-resistant 3D Print Resin (DLP)

## **RESIN PROPERTIES**

3DLite <sup>®</sup> 347-FR	METRIC	METHOD
Tensile Strength	49 MPa	ASTM D638
Tensile Modulus	2.8 GPa	ASTM D638
Elongation	5%	ASTM D638
Flexural Strength @ 5%	62 MPa	ISO 178
Flexural Modulus	1.8 GPa	ISO 178
IZOD Impact Strength (notched)	17 J/m	ASTM D256
Heat Deflection Temp @ 0.455 MPa	47 °C	ISO 75
Heat Deflection Temp @ 1.80 MPa	26 °C	ISO 75
Glass Transition Temperature	124 °C	DMA
Shore D Hardness	78	ASTM D2240
Viscosity	1400 cP	Brookfield viscometer @ 25 °C
Flammability	V-0	UL 94 (3.0 mm Thickness)
Specific Gravity	1.07 g/cm <sup>2</sup>	ASTM D792

1. Material properties can vary with part geometry, print orientation, print settings and temperature.

 Data was obtained from parts printed using B9Creations B9 Core 550 (b9c.com), washed in IPA for 20 minutes and post-cured with B9 Model Cure at room temperature for 10 minutes on both sides of the parts.

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.



#### DESCRIPTION

3DLite® 347-FR Black is a flame resistant material with industryleading mechanical performance, suitable for various applications including prototyping and low-volume production. It passes UL94 flammability V-0 and demonstrates extremely smooth surface quality and exceptional precision.

#### **FEATURES**

- Functional parts with reliable material properties mechanical strength and stability.
- Passes UL94 flammability V-0.
- Extremely smooth surface with minimal post processing.
- No additional thermal curing/ post-processing required.



## 3DLite<sup>®</sup> 347-FR Black Flame-resistant 3D Print Resin (DLP)

#### SDC TECHNOLOGIES CONTACT INFORMATION

#### **Corporate Headquarters - USA**

45 Parker, Suite 100 Irvine, California 92618 USA 800-272-7681 (Toll-Free USA) +1-714-939-8300 technicalsupport.ca@sdctech.com

#### **Europe Office**

Unit 7, Avondale Industrial Estate Pontrhydyrun, Cwmbran NP44 1UG, Great Britain +44-1633-627030 technicalsupport.eu@sdctech.com

#### **China Office**

No. 1585 Gumei Road Xuhui District Shanghai 200233 China +86-21-61517768 customercare.cn@sdctech.com

#### Singapore Office

27 Tuas South Street 1 Singapore 638035 +65-6210-6355 customercare.ap@sdctech.com



### sdctech.com

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#### **STORAGE AND USE**

Store this material 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  $75^{\circ}F/24^{\circ}C$ . When stored at this temperature in the original closed container, it is recommended to use material 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 material solution properties and cured material properties listed herein represent typical values for 347-FR Black 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 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.

