

Technical Data Sheet

3DLite[®] 312-RB Black

Robust Exceptional Smooth Surface 3D Print Resin (DLP)

RESIN PROPERTIES

3DLite [®] 312-RB	METRIC	METHOD
Tensile Strength	43 MPa	ASTM D638
Tensile Modulus	2.7 GPa	ASTM D638
Elongation	12%	ASTM D638
Flexural Strength @ max. load	64 MPa	ISO 178
Flexural Modulus	1.6GPa	ISO 178
IZOD Impact Strength (notched)	28 J/m	ASTM D256
Heat Deflection Temp @ 0.45 MPa	56 °C	ISO 75
Heat Deflection Temp @ 1.80 MPa	29 °C	ISO 75
Glass Transition Temperature	130 °C	DMA
Shore D Hardness	75	ASTM D2240
Viscosity	2200 CPS @ 25°C	Brookfield viscometer @ 25 °C
Specific Gravity	1.067g/cm ³	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 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.



DESCRIPTION

3DLite® 312-RB Black is a PP-like material with industry-leading mechanical performance, suitable for various applications including prototyping and lowvolume production. It demonstrates extremely smooth surface quality and exceptional precision.

FEATURES

- Functional parts with reliable material properties mechanical strength and stability.
- Extremely smooth surface with minimal post processing.
- PP-like parts: look and feel of injection-molded parts.
- No additional thermal curing/ post-processing required.



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Robust 3D Print Resin (DLP)

SDC TECHNOLOGIES CONTACT INFORMATION

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STORAGE AND USE

Store 312-RB Black 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 312-RB 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 312-RB Black 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.

