ComX Computers
Product Specification Sheet

SBZ2HG-10

Anycubic Standard Resin v2 1kg - HD Grey

Product Overview

Anycubic Standard Resin v2 1kg - HD Grey, Compatible with All 405nm LCD/DLP printers, Tensile strength of 35-45 MPa, Volume shrinkage rate of 4.3-5.6%, Hardness rating of 80-83 HD, Cleaning requires 95% ipa for at least 3 minutes











Specifications

Overview Summary:

Upgrade your 3D printing projects with the Anycubic Standard Resin V2 in HD Grey, specifically formulated for users who need a perfect balance between toughness and fine detail. This premium photopolymer resin delivers enhanced impact resistance, allowing your models to flex without breaking while maintaining superior dimensional accuracy thanks to its low shrinkage rate. Ideal for creating action figures, functional prototypes, tooling fixtures, and durable consumer parts, this 1kg bottle is compatible with all standard 405nm LCD and DLP printers found in South African maker spaces.

The low-viscosity formula ensures smooth resin flow and fast bubble dissipation, resulting in cleaner surface finishes and reduced print times. With a comfortable low-odour formulation, you can maintain a pleasant printing environment without compromising on quality. Pre-configured profiles are available for Anycubic's Photon Workshop slicer, making it easy to achieve consistent results right from your first print. Secure your supply today by buying this essential material now and elevate the durability of your creations.

Performance tier: Standard Professional

Uses: Action figures, consumer electronic shells, tooling fixtures, snap-on parts, load-bearing structural components, functional prototypes

Overview:

The Anycubic Standard Resin V2 in HD Grey (Part Number SBZ2HG-10) represents a significant upgrade for users of 405nm LCD and DLP printers. This reformulated photopolymer resin is engineered to deliver enhanced toughness and impact resistance, ensuring that your printed models can withstand drops without shattering or flexing under stress rather than fracturing brittlely.

Beyond its durability, this material excels in precision printing thanks to a low-viscosity formula that promotes rapid bubble dissipation. This characteristic allows for faster resin flow, which translates to reduced print times and the ability to reproduce intricate surface details with high fidelity. With a volumetric shrinkage rate of just 4.3%, users can expect superior dimensional accuracy and minimal deformation, keeping models true to their original design specifications.

Description:

The Anycubic Standard Resin V2 HD Grey is the ideal choice for creating durable functional parts, action figures, and detailed prototypes. Its balanced blend of strength and ductility makes it perfect for load-bearing components, tooling fixtures, and snap-on parts that require flexibility. The low-odour formulation ensures a more comfortable printing environment for hobbyists and professionals alike.

Features:

Key Benefits

- Enhanced toughness allows models to resist impact and flex without breaking
- Low-viscosity formula reduces print time while improving surface detail
- Superior dimensional accuracy with minimal shrinkage for precise fits
- Low-odour scent makes it suitable for home or office environments
- Compatible with all standard 405nm UV-curing LCD and DLP printers

To ensure optimal results, the resin requires proper preparation before use. Simply shake the bottle well to mix the components thoroughly. During the printing process, maintaining an ambient temperature between 20 and 40 degrees Celsius

is recommended for best flow characteristics.

Technical Specifications:

- Material: Photopolymer Resin
- Colour: HD Grey
- Wavelength: 365-405 nm (Curing at 405 nm)
- Viscosity: 250-350 mPa·s at 25 degrees Celsius
- Density: 1.05-1.25 g/cm
- Hardness: 80-83 HD
- Tensile Strength: 35-45 MPa
- Elongation at Break: 25-30%
- Bending Modulus: 40-50 MPa
- Bending Strength: 1500-2100 MPa
- Young's Modulus: 1200-1400 MPa
- Izod Impact Strength: 192 J/m
- Volume Shrinkage Rate: 4.3-5.6%

Post-Processing and Cleaning Guidelines
Once printing is complete, the parts require thorough cleaning to remove uncured resin before they are fully hardened. It is recommended to wash the printed models in 95% Isopropyl Alcohol (IPA) for a minimum of three minutes. After washing, a post-curing process using UV light at an intensity of 25,000-30,000 µW/cm² is necessary to achieve maximum material properties.

Curing Parameters

- Curing Temperature: 18-30 degrees Celsius
- UV Wavelength: 405 nm
- UV Intensity: 25,000-30,000 µW/cm²
- Curing Time: Approximately 3 minutes

For disposal purposes, please note that resin treated with UV light after the curing process should be handled as plastic waste.

What's in the Box

- Anycubic Standard Resin V2 - HD Grey (1kg)

Specifications:

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Specifications	
Product Code	SBZ2HG-10
Colour	HD Grey
Resin Size	1kg
Pre-print preparation	Shake well before use
Print environment	20-40 degreesC
First layer exposure duration	20-40 s

Normal exposure duration	2.5-3 s
Print temperature	20-50 degreesC
Material	Photopolymer Resin
Wavelength	365-405 nm
Viscosity	250-350/mPa s(25degreesC)
Density	1.05-1.25/g/cm³
Hardness	80-83 HD
Tensile Strength	35-45 MPa
Elongation at Break	25-30%
Bending Modulus	40-50 MPa
Bending Strength	1500-2100 MPa
Young's Modulus	1200-1400 MPa
Izod Impact Strength	192 J/m
Volume Shrinkage Rate	4.3-5.6%
Cleaning	95% IPA
Washing duration	>=3 mins
UV Wavelength	405 nm
Curing Temperature	18-30 degreesC
UV Intensity	25000-30000 uW/cm²
Curing time	3 mins
Disposal	Post-UV-curing resin is treated as plastic waste

FAQ

Is this resin compatible with my current 3D printer?
The Anycubic Standard Resin V2 HD Grey works with all UV-curing LCD/DLP printers operating at a wavelength of 405nm. It is designed to integrate seamlessly into existing workflows without requiring specific hardware changes.

What makes the V2 version different from standard resins?
This formula features enhanced toughness and impact resistance, allowing models to flex rather than fracture when dropped. It also includes a low-odour formulation for a more comfortable printing environment and maintains high precision with a volumetric shrinkage rate of only 4.3%.

What are the recommended settings for printing with this resin?
For optimal results, shake the bottle well before use. Set your print environment between 20-40degrees C with exposure times ranging from 20-40 seconds for the first layer and 2.5-3 seconds for normal layers. Pre-configured profiles are available in Anycubic's Photon Workshop slicer to help ensure consistent quality.

How should I clean and cure prints made with this material?
Clean printed parts using at least 95% IPA for a minimum of 3 minutes to remove uncured resin. For post-processing, cure the model under a 405nm UV light source with an intensity between 25,000-30,000 µW/cm² for approximately 3 minutes at temperatures between 18-30degreesC.

What is the recommended use case for this HD Grey resin?

Due to its balance of strength and ductility, this material is ideal for creating durable functional parts such as tooling fixtures, snap-on components, action figures, and load-bearing structural elements that require resistance to drops and impacts.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx-computers.co.za/SBZ2HG-10-Anycubic-Standard-Resin-v2-1kg-HD-Grey-p-341826.php

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