

## **BLUEprint DATA SHEET**

Hard General Engineering Resin for prototyping and functional 3D Printing

## **Description:**

BLUEprint exhibits a clean, smooth print with low shrink, medium-high tensile strength, solvent resistance and high shore hardness.

Color: Opaque Cyan. BLUEprint is available in Custom colors upon request.

## **Technical Data:**

Shore D Hardness	81
UV Absorption	405nm
Exposure @ .05mm	12s
Uncured Density	1.11 (g/ml)
Cured Density	1.19 (g/ml)
Shrinkage	6.7%
*Post cured for 30min @ 50*C	
Shrinkage	3.3%
*Post cured for 15min @ 50*C	
Viscosity (25°C)	653 mPa*s
Elastic modulus	281,250 (psi)
Tensile Strength	6,645 (psi)
Elongation	6.5%
*Tested according to ASTM D638 specifications	
and bones, 50 mm/min, Type IV	
Shelf Life minimum 1 year unopened	

## **BLUEprint Solvent Compatibility**

Percent weight gain over 24 hours for printed and post-cured 1x1x1 cm cube immersed in respective solven**t**:

Material	24 hr weight gain (%)
Acetone	8.8
Isopropyl Alcohol	.62
Bleach (5% NaOCI)	.42
Butyl Acetate	1.04
Hydrolic Oil	0
Hyrdogen Peroxide (3%)	.42
Mineral Oil, light	.31
Mineral Oil, Heavy	.21
Salt Water (3.5%)	.8
Sodium Hydroxide (.025%)	0
Water	.78
Xylene	.31

3D Resin Solutions is a manufacturer of custom resin for specific applications. Contact us for information on development work, custom colors, bulk ordering, or specific applications.

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