



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Silicone-Compatible Model Resin

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Silicone-Compatible Model Resin is a purple-colored resin that can be used to print platinum catalyzed silicone molds. The combination of high mechanical characteristics and chemical inertness to silicone resins allows to obtain high quality silicone molds and use this material both in engineering and in jewelry.

SECTION 2: POSTPROCESSING

Printed parts should be rinsed with isopropyl alcohol. Flush cycles should be carried out until the parts are free of liquid material and dry. Manual cleaning with a soft brush dipped in isopropyl alcohol will help speed up the rinsing process. After that, it is recommended to blow the printed parts with compressed air and warm up for 120 minutes at a temperature of 80° C.

SECTION 3: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Violet
Odor	-	Weak
Density	ASTM D1298	1.1 g/cm ³
Viscosity (25 °C)	ASTM D2393	550±300 мПа·с

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	107±10 MPa
Flexural Modulus	ASTM D790	1100± 100 MPa
Ultimate Tensile Strength	ASTM D638	70± 10 MPa
Elongation at Break	ASTM D638	16± 2.0 %
Tensile Modulus	ASTM D638	900± 100 MPa
Hardness	ASTM D2240	92 ± 5, Shore D
IZOD Impact (Unnotched)	ASTM D4812	22 ± 5 kJ/m ²

The information above is believed to be accurate and represents the best information currently available to us. All test specimens were printed, cleaned, and post-processed per instructions provided by HARZ Labs company. Results provided here are representative of these processes and may vary if these established protocols are not followed. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall HARZ Labs LLC (ООО «ХАРЦ Лабс») be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if HARZ Labs LLC (ООО «ХАРЦ Лабс») has been advised of the possibility of such damages.