



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs

Industrial Silicone like

Material Technical Data Sheet (TDS)

Version 1.0 / EN
26 July 2021

SECTION 1: DESCRIPTION AND APPLICATION

Designed for printing models with similar to silicone properties. This resin could be used as a toughness modifier for other resins.

SECTION 2: POSTPROCESSING

Printed parts should be rinsed with isopropyl alcohol or immersed in an ultrasonic bath filled with isopropyl alcohol for 30 seconds. Flush cycles should be carried out until the parts are free of liquid material. 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. Postcure the printed parts in a UV chamber for 30 minutes at a power of 200 watts @405 nm.

SECTION 3: MATERIAL PROPERTIES

2.1 Characteristics of liquid

| Tested property | Standard/Method | Result (Metric) |
|-------------------|-----------------|-----------------------------|
| Color | - | Custom |
| Odor | - | Weak |
| Density | ASTM D1298 | 1.1 ± 0.1 g/cm ³ |
| Viscosity (20 °C) | ASTM D2393 | 550 ± 250 mPa·s |

2.2 Mechanical properties

| Tested property | Standard/Method | Result (Metric) |
|---------------------------|-----------------|-----------------|
| Ultimate Tensile Strength | ASTM D638 | 3.5 ± 0.5 MPa |
| Elongation at Break | ASTM D638 | 235.0 ± 20 % |
| Hardness | ASTM D2240 | 60 ± 10 Shore A |

2.3 Special parameters

| Tested property | Standard/Method | Result |
|------------------|-----------------|----------|
| Solubility (24h) | ASTM D3132 | ≤ 0.01 % |
| Sorption (24h) | ASTM D570 | ≤ 0.47 % |

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