

HARZ Labs MATERIALS FOR 3D PRINTING

HARZ Labs Industrial Flex

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Designed for printing models that have high requirements in hardness, elongation and flexibility. This resin could be used as a toughness modifier for other resins.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Clear (transparent)
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \text{ g/cm}^3$
Viscosity (20 °C)	ASTM D2393	550 ± 250 mPa·s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Ultimate Tensile Strength	ASTM D638	12.4 ± 4.5 MPa
Tensile Modulus	ASTM D638	250 ± 15 MPa
Elongation at Break	ASTM D638	115.0 ± 15.5 %
Hardness	ASTM D2240	73 ± 5 Shore D

2.3 Special parameters

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

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 (OOO «XAPL 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 (OOO «XAPL Лабс») has been advised of the possibility of such damages.