



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	$550 \pm 250 \text{ mPa}\cdot\text{s}$

2.2 Mechanical properties

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

2.3 Special parameters

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

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