



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Industrial ABS V2

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

ABS-like resin for industrial application, adapted to LCD/DLP printers 385-405 nm.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result
Color	-	Dark grey
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \text{ g/cm}^3$
Viscosity (25 °C)	ASTM D2393	$1100 \pm 400 \text{ mPa}\cdot\text{s}$

2.1 Mechanical properties

Tested property	Standard/Method	Result
Flexural Strength	ASTM D790	$80.0 \pm 10.0 \text{ MPa}$
Flexural Modulus	ASTM D790	$1450 \pm 200 \text{ MPa}$
Ultimate Tensile Strength	ASTM D638	$47.0 \pm 5.0 \text{ MPa}$
Elongation at Break	ASTM D638	$18 \pm 5 \%$
Hardness	ASTM D2240	$85 \pm 3 \text{ Shore D}$
Charpy Impact (Unnotched)	ASTM D6110-18	$22.0 \pm 3.0 \text{ kJ/m}^2$
Heat Deflection Temperature @ 0.455 MPa	ASTM D648	$55 \text{ }^\circ\text{C}$

2.2 Special parameters

Tested property	Standard/Method	Result
Water Sorption (4 weeks)	ASTM D570	$\leq 1 \%$

The information above is believed to be accurate and represents the best information currently available to us. The Imperial values are converted from Metric measurements and are for reference only. 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.