

HARZ Labs Tough White

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Designed for printing models that have high requirements in hardness, durability, flexural strength.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	White
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \text{ g/cm}^3$
Viscosity (25 °C)	ASTM D2393	450 ± 150 mPa⋅s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	125.0 ± 15.0 MPa
Flexural Modulus	ASTM D790	2400 ± 300 MPa
Ultimate Tensile Strength	ASTM D638	80 ± 5 MPa
Tensile Modulus	ASTM D638	1000 ± 100 MPa
Elongation at Break	ASTM D638	7.5 ± 2.5 %
Hardness	ASTM D2240	82 ± 3 Shore D
HDT @ 0.45 MPa	ASTM D648	80 ± 5 °C
HDT @ 1.82 MPa	ASTM D648	60 ± 5 °C
Izod Impact resistance	ASTM D256	9 ± 3 mJ/cm ²
(unnotched)		
Sharpy Impact resistance	ASTM D6110	11 ± 3 mJ/cm ²
(unnotched)		

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