

Technical Data Sheet

PROTOWHITE RIGID

General Properties	Norm	Typical Values
Appearance	-	White
Viscosity, 30 °C	Cone/Plate Rheometer ¹	220 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	80 mPas
Density (printed part)	ASTM D792	1.2 g/cm ³
Density (liquid resin)	ASTM D4052-18a	1.1 g/cm ³

Tensile Properties	Norm	Typical Values
E Modulus	ASTM D638	2300 MPa
Ultimate Tensile Strength	ASTM D638	57 MPa
Elongation at Break	ASTM D638	15 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	1920 MPa
Flexural Strength	ASTM D790	94 MPa

Impact Properties	Norm	Typical Values
Notched Izod, 23 °C	ASTM D256	28 J/m
Unnotched Izod, 23 °C	ASTM D256	662 J/m
Charpy notched, 23 °C	ISO 179-1	1.9 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	55 °C
HDT at 1.82 MPa	ASTM D648	49 °C

Hardness	Norm	Typical Values
Shore D	ASTM D2240	77

Biocompatibility Properties

Passed the cytotoxicity testing in accordance with ISO10993-5: 2009 requirements

Long Term Mechanical Properties

Tested and verified for stable mechanical performance after 1000 hours UV aging test in accordance with ISO 4892-2:2013 requirements

¹) Determined with TA-Instrument DHR rheometer, cone/plate, diameter 60 mm, shear rate 100 s⁻¹