

MATERIALS COMPARISON - Technical Datasheet



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	MATERIAL	TENSILE MODULUS	TENSILE STRENGTH	ELONGATION AT BREAK	HARDNESS SHORE	IMPACT STRENGTH (Izod Notched)	GLASS TRANSITION TEMPERATURE	HDT-B	DENSITY	FLEXURAL MODULUS	FLEXURAL STRENGTH	TEAR STRENGTH, DIE C
DLS	Rigid Polyurethane	1700 - 2200 MPa	42 - 47 MPa	90 - 120%	-	21 - 23 J/m	80 °C	70 °C	1.01 - 1.02 g/mL (Liquid)	1500 - 2200 MPa	55 - 71 MPa	-
	Elastomeric Polyurethane	8 ± 1 MPa	6 ± 1 MPa	190 ± 10%	68 ± 1 (Shore A)	-	-50 °C	-	-	-	-	23 ± 3 kN/m
	Flexible Polyurethane	860 ± 110 MPa	29 ± 1 MPa	280 ± 15%	80 (Shore D)	40 ± 5 J/m	-	78 °C	1.06 g/cm ³ (Liquid)	831 ± 36 MPa	-	-
	Cyanate Ester	3800 - 4500 MPa	90 - 110 MPa	2.5 - 4%	-	22 - 25 J/m	175 °C	219 °C	1.10 - 1.14 g/mL (Liquid)	3800 - 4200 MPa	140 - 160 MPa	-
	Urethane Methacrylate	2000 ± 100MPa	46 ± 3MPa	17 ± 2%	86 (Shore D)	33 ± 4 J/m	-	51 °C	1.10 g/cm ³ (Liquid)	2010 ± 119 MPa	-	-
SLA	Prototyping Resin	1.6 GPa (Green)	38 MPa (Green)	12% (Green)	-	16 J/m (Green)	-	49.7 °C (Green)	-	1.25 GPa (Green)	-	-
		2.8 GPa (post-cured)	65 MPa (post-cured)	6.2% (post-cured)		25 J/m (post-cured)		73.1 °C (post-cured)		2.2 GPa (post-cured)		
Polyjet	VeroWhite	2000 - 3000 MPa	50 - 65 N/mm ²	10 - 25%	83 - 86 (Shore D)	20 - 30 J/m	52 - 54 °C	45 - 50 °C	1.17 - 1.18 g/cm ³ (Polymerized)	2200 - 3200 MPa	75 - 110 MPa	-
	VeroClear	2000 - 3000 MPa	50 - 65 N/mm ²	10 - 25%	83 - 86 (Shore D)	20 - 30 J/m	52 - 54 °C	45 - 50 °C	1.18 - 1.19 g/cm ³ (Polymerized)	2200 - 3200 MPa	75 - 110 MPa	-

All materials available at: [sculpteo.com](https://www.sculpteo.com)