
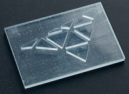



3D PRINTING WITH PLASTICS FOR MAXIMUM DETAIL RENDITION

The advantages of objects made of epoxy resins include a high level of detail and smooth surfaces. One of the production processes used for such objects is stereolithography. With PROTIQ you can choose from the VisiJet options “Tough,” “Clear” and “HiTemp” with the corresponding characteristics.

MATERIAL				VisiJet Tough	VisiJet Clear	VisiJet HiTemp
						
	Properties	Condition	Unit			
General properties	Color	–	–	gray	transparent	amber
	Density, liquid	at 25°C	g/cm ³	1.13	1.13	1.12
	Density, hardened	at 25°C	g/cm ³	1.19	1.21	1.18
Hardened material	Shore D hardness	–	–	86	85	86
	Breaking strength	ASTM D 790	MPa	62	83	112
	Tensile strength	ASTM D 638	MPa	41	58 – 68	66
	Elastic modulus	ASTM D 638	MPa	1,890	2,690 – 3,100	3,390
	Elongation at break	ASTM D 638	%	18	5 – 13	6
	Bending strength	ASTM D 790	MPa	1,850	2,330	3,080
	Flexural modulus	ASTM D 790	MPa	1,520 – 2,070	2,700 – 3,000	–
	Notched impact strength	ASTM D 256	J/m	44	46	26
	Heat deflection temperature at 0.45 MPa	ASTM D 648	°C	62	54	65/130*
	Heat deflection temperature at 1.82 MPa	ASTM D 648	°C	54	49	57/110*

* after thermal treatment