

UTR8220

TECHNICAL DATA

Overview

• Bright green

• Suitable for high-precision SLA light-curing 3D printing rapid prototyping system with a light source of 355 nm

• High hardness, high strength, good toughness, fast construction

• The parts are built with high precision and good dimensional stability

• Suitable for functional testing and processing with high requirements on toughness

• Excellent temperature resistance, can maintain product strength, toughness and dimensional stability at 65°C

• Applicable industries include: aerospace, automotive, consumer goods and electronic products, etc.

Technical performance index

Liquid performance index	
Inspection item	Numerical value
appearance	Tender green viscous liquid
Viscosity (25 °C)	486cps
Density (25°C)	1.18g/cm ³
Depth of Cure (Dp)	0.15mm
Critical Exposure Energy (Ec)	10.20mJ/cm ²

Parts performance index			
Test items	Detection method	UTR8220	ABS
Tensile strength (MPa)	ASTM D638M	51.21	45.7
Tensile modulus (MPa)	ASTM D638M	2136	
Elongation at break (%)	ASTM D638	16	42
Bending strength (MPa)	ASTM D790	93.5	73.5
Flexural modulus (MPa)	ASTM D790	2355	2300
Impact strength (J/m)	ASTM D256	27	160

Water absorption (%)	ASTM D570	0.44	0.20-0.45
Shore hardness (D)	ASTM D2241	86	81
Heat distortion temperature (ȳ)	ASTM D648 0.45MPa 58		84
Heat distortion temperature (ȳ)	ASTM D648 1.82MPa 51		80