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

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)	486cps
Density (25)	1.18g/cm3
Depth of Cure (Dp)	0.15mm
Critical Exposure Energy (Ec)	10.20mJ/cm2

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	ASTM D648 0.45MPa 58		84
Heat distortion temperature	ASTM D648 1.82MPa 51		80