Xometry

Datasheet

8220-SLA

Description

The 8220 is suitable for high-precision stereolithography (SLA) 3D printing rapid prototyping systems with 355 nm light sources.

Color: Light green

Features: High hardness, strength and toughness, and fast construction speed Parts made with 8220 featuring high precision and excellent dimensional stability Suitable for functional testing and processing that requires high toughness

Excellent temperature resistance, capable of maintaining product strength, toughness, and dimensional stability at 65°C

Applications: Aerospace, automotive, consumer goods, and electronics

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Parameters

Liquid properties	
Test items	**Value**
Appearance	Light green viscous liquid
Viscosity (at 25°C)	486cps
Density (at 25°C)	1.18g/cm^3
Penetration Depth (Dp)	0.15mm
Critical Exposure Energy (Ec)	10.20mJ/cm^2

Test items	Test methods	UTR8220	ABS
Tensile Strength (MPa)	ASTM D638M	51.21	45.7
Tensile Modulus (MPa)	ASTM D638M	2136	
Elongation at Break (%)	ASTM D638	16	42
Flexural Strength (MPa)	ASTM D790	93.5	73.5
Flexural Modulus (MPa)	ASTM D790	2355	2300
Impact Strength (J/m)	ASTM D256	27	160

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Technical Data

Liquid properties	
Test items	**Value**
Appearance	Light green viscous liquid
Viscosity (at 25°C)	486cps
Density (at 25°C)	1.18g/cm^3
Penetration Depth (Dp)	0.15mm
Critical Exposure Energy (Ec)	10.20mJ/cm^2

Technical Data of Finished Parts			
Test items	**Test methods**	**Godart*8228**	**ABS**
Tensile Strength (MPa)	ASTM D638M	51.21	45.7
Tensile Modulus (MPa)	ASTM D638M	2136	
Elongation at Break (%)	ASTM D638	16	42
Flexural 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
Hardness - Shore (D)	ASTM D2241	86	81
Heat Deflection Temperature (°C)	ASTM D648 0.45 MPa	58	84
Heat Deflection Temperature (°C)	ASTM D648 182 MPa	51	80