

8220

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

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

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

Liquid properties

Test items

Value

Appearance

Light green viscous liquid

Viscosity (at 25°C)

486cps

Density (at 25°C)

1.18g/cm³

Penetration Depth (Dp)

0.15mm

Critical Exposure Energy (Ec)

10.20 mJ/cm²

Technical Data of Finished Parts

Test items

Test methods

UTR8220

ABS

Tensile Strength (MPa)

ASTM D638M

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Tensile Modulus (MPa)

ASTM D638M

2136

Elongation at Break (%)

ASTM D638

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Flexural Strength (MPa)

ASTM D790

93.5

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Flexural Modulus (MPa)

ASTM D790

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Impact Strength (J/m)

ASTM D256

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