



Raise3D High Detail Apricot V1 Resin Technical Data Sheet¹

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High-resolution material for detailed models

High Detail Resin features an ultra-high resolution matte appearance to bring your visual prototypes and model designs to life. The smooth apricot surface finish has a professional appearance and simplifies various post-processing and finishing methods (e.g., painting and plating).

Benefits

- Ultra-fine details and high resolution
- Ready for painting and plating
- Excellent matte surface finish

Applications

- Ultra-high resolution and detailed prototypes
- Complex and intricate models and sculptures
- Modpels for painting and plating

¹ The cover shows an audio-visual prototype.

Physical Properties

Bronorty	Testing Method	Typical Value		
Property	Testing Method	Metric	Imperial	
Appearance	/	Liquid, Apricot		
Density (liquid resin)	ASTM D4052	1.136 g/cm ³	1.136 g/cm ³	
Density	ASTM D792	1.40 g/cm ³	1.40 g/cm ³	
Liquid Viscosity	ASTM D7867	331 cps@25°C	331 cps@25°C	
Shore D Hardness	ASTM D2240	88D	88D	

Mechanical Properties*

Broporty	Testing Method	Green		Post-Cured	
Property		Metric	Imperial	Metric	Imperial
Young's Modulus	ASTM D638	1781 MPa	258.30 ksi	2622 MPa	380.28 ksi
Tensile Strength	ASTM D638	42 MPa	6.09 ksi	58 MPa	8.41 ksi
Elongation at Break	ASTM D638	17%	17%	13%	13%
Flexural Modulus	ASTM D790	1521 MPa	220.59 ksi	2886 MPa	418.56 ksi
Flexural Strength	ASTM D790	61 MPa	8.85 ksi	98 MPa	14.21 ksi
Notched Izod	ASTM D256	32 J/m	0.62 ft-lbf/in	34 J/m	0.64 ft-lbf/in

*Note:

All test specimens were printed in 50µm thickness with Raise3D DF2 printer (2 mW/cm² at 405 nm, 50 µm thickness, 9s). All post-cured test specimens were cured with DF Cure for 15 minutes per side at room temperature.

All specimens were conditioned in ambient lab conditions at 20-25 $^\circ$ C / 40-60% RH for 16 to 24 hours.

Test performance differs depending on part geometry, print placement orientation, print settings and temperature.

Thermal Properties*

Property	Testing Mathed	Post-Cured		
	Testing Method	Metric	Imperial	
Heat Deflection Temp. @0.45 MPa/66 psi	ASTM D648	70°C	158°F	
Heat Deflection Temp. @1.82 MPa/264 psi	ASTM D648	51°C	123.8°F	

*Note:

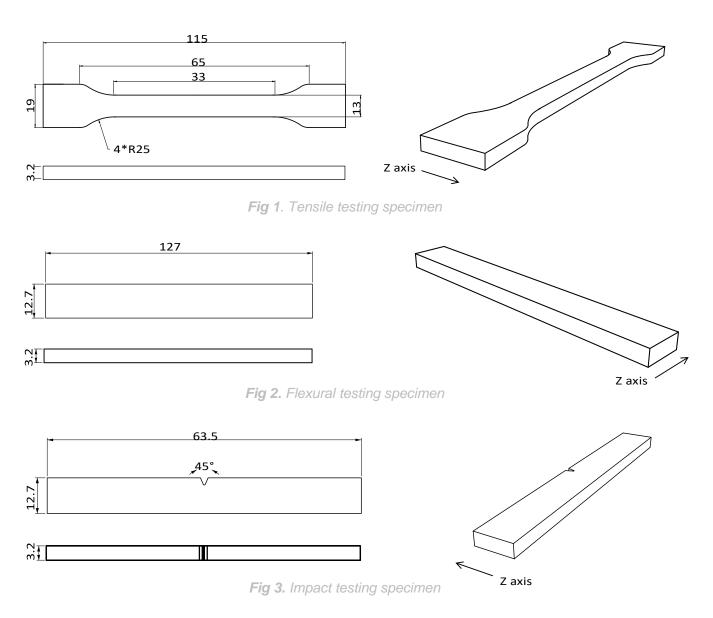
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Testing Geometries



Disclaimer

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End-use performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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