# Stratasys Digital ABS

### Unspecified

#### Stratasys

#### Message:

Our Digital ABS family offers toughness combined with exceptional dimensional stability. This material is offered in green and ivory and is fabricated from two base materials: RGD515 and RGD535 Green or RGD531 lvory.

It is designed to simulate ABS engineering plastics by combining strength with high-temperature resistance.

Digital ABS is suitable for simulating parts that require high impact resistance and shock absorption with it's impact resistance of 65-80J/m (1.22-1.5 ft lb/inch) and a heat deflection temperature of (HDT) of 58-68 °C (136-154 °F). A higher HDT of 82-95 °C (179-203 °F) can be achieved after thermal post-treatment in a programmable oven using different temperature profiles.

Ideal for:

Functional prototypes

Snap-fit parts for high or low temperature usage

Electrical parts, casings, mobile telephone casings

Engine parts and covers

Good Dimensional Stability		
Good Toughness		
High Heat Resistance		
High Impact Resistance		
Low Temperature Resistant		
Shock Absorbent		
Automotive Applications		
Electrical Housing		
Engineering Parts		
Housings		
Protective Coverings		
Prototyping		
Green		
lvory		
3D Printing, Jetted Photopolymer		
Nominal Value	Unit	Test Method
1.17 to 1.18	g/cm³	ASTM D792
Nominal Value	Unit	Test Method
67 to 69		
85 to 87		
Nominal Value	Unit	Test Method
2600 to 3000	MPa	ASTM D638
55.0 to 60.0	MPa	ASTM D638
	Good Dimensional Stability Good Toughness High Heat Resistance High Impact Resistance Low Temperature Resistant Shock Absorbent Shock Absorbent Electrical Housing Electrical Housing Engineering Parts Engineering Parts Housings Protective Coverings Protective Coverings Prototyping Green Housing Prototyping Solot Solo Solot o 3000 S5.0 to 60.0	Good Dimensional Stability   Good Toughness   High Heat Resistance   High Impact Resistance   Low Temperature Resistant   Shock Absorbent   Automotive Applications   Electrical Housing   Protective Coverings   Protective Coverings   Prototyping   JD Printing, Jetted Photopolymer   Nominal Value Unit   1.17 to 1.18 g/cm³   Rominal Value Unit   67 to 69 Unit   85 to 87 Unit   12600 to 3000 MPa   5.0 to 60.0 MPa

Tensile Elongation (Break)	25 to 40	%	ASTM D638
Flexural Modulus	1700 to 2200	MPa	ASTM D790
Flexural Strength	65.0 to 75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	65 to 80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed <sup>1</sup>	82.0 to 90.0	°C	
0.45 MPa, Unannealed <sup>2</sup>	92.0 to 95.0	°C	
0.45 MPa, Unannealed	58.0 to 68.0	°C	
1.8 MPa, Unannealed	51.0 to 55.0	°C	
Glass Transition Temperature	47.0 to 53.0	°C	DMA
NOTE			
	After thermal post treatment		
1.	procedure A		
	After thermal post treatment		
2.	procedure B		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

