Stratasys RGD525

Unspecified

Stratasys

Message:

High Temperature material (RGD525) has exceptional dimensional stability for thermal function testing of 3D models. The material has a heat deflection temperature (HDT) of 63-67 °C (145-153 °F) upon removal from the printer which can be increased to 75-80 °C (167-176 °F) after thermal post-treatment in a programmable oven.

Ideal for:

Form, fit and thermal functional testing

High-definition models requiring excellent surface quality

Exhibition models that endure strong lighting conditions

Post-processing including painting, gluing, or metallization processes

Taps, pipes and household appliances

Hot air and hot water testing

General Information			
Features	Good Dimensional Stability		
	Good Surface Finish		
	High Heat Resistance		
Uses	Appliances		
	Household Goods		
	Modeling Material		
	Piping		
	Prototyping		
Appearance	Natural Color		
Processing Method	3D Printing, Jetted Photopolymer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17 to 1.18	g/cm³	ASTM D792
Water Absorption (24 hr)	1.2 to 1.4	%	ASTM D570
Ash Content	0.38 to 0.42	%	USP 281
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78 to 83		
Durometer Hardness (Shore D)	87 to 88		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200 to 3500	MPa	ASTM D638
Tensile Strength	70.0 to 80.0	MPa	ASTM D638
Tensile Elongation (Break)	10 to 15	%	ASTM D638
Flexural Modulus	3100 to 3500	MPa	ASTM D790
Flexural Strength	110 to 130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	14 to 16	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed ¹	75.0 to 80.0	°C	
0.45 MPa, Unannealed	63.0 to 67.0	°C	
1.8 MPa, Unannealed	55.0 to 57.0	°C	
Glass Transition Temperature	62.0 to 65.0	°C	DMA
NOTE			
1	After thermal post treatment		
I	procedure A		

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