

# Endur™ RGD450

Unspecified  
Stratasys

Message:

Endur™ is an advanced simulated polypropylene photopolymer offered in a bright white color, with improved toughness, increased dimensional stability and great surface finish.  
Ideal for:  
Reusable containers and packaging  
Flexible, snap-fit applications and living hinges  
Toys, battery cases, laboratory equipment, loudspeakers and automotive components

General Information			
Features	Good Dimensional Stability		
	Good Flexibility		
	Good Surface Finish		
	Good Toughness		
Uses	Automotive Applications		
	Battery Cases		
	Containers		
	Labware		
	Living Hinges		
	Packaging		
	Prototyping		
	Toys		
Appearance	White		
Processing Method	3D Printing, Jetted Photopolymer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20 to 1.21	g/cm <sup>3</sup>	ASTM D792
Ash Content	0.30 to 0.40	%	USP 281
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	58 to 62		
Durometer Hardness (Shore D)	80 to 84		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700 to 2100	MPa	ASTM D638
Tensile Strength	40.0 to 45.0	MPa	ASTM D638
Tensile Elongation (Break)	20 to 35	%	ASTM D638
Flexural Modulus	1500 to 1700	MPa	ASTM D790
Flexural Strength	52.0 to 59.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30 to 35	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	49.0 to 54.0	°C	
1.8 MPa, Unannealed	45.0 to 50.0	°C	
Glass Transition Temperature	48.0 to 52.0	°C	DMA

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#### Recommended distributors for this material

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