

# InnoGreen® BIO-50A

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

InnoGreen® BIO-50A is a 50 shore A polyurethane elastomer formulated for hand-batch and vacuum assisted processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. InnoGreen® BIO-50A has been approved by the USDA as a bio preferred product.

General Information			
Features	Renewable Resource Content		
Agency Ratings	USDA Certified Biobased Product		
RoHS Compliance	RoHS Compliant		
Appearance	Tan		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.02	g/cm <sup>3</sup>	
Cured	1.07	g/cm <sup>3</sup>	
Base Resin	1.20	g/cm <sup>3</sup>	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 30		
Resin	Mix Ratio by Volume: 25		
Demold Time	480 to 960	min	
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	36	%	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C <sup>1</sup>	0.10	Pa · s	
25°C <sup>2</sup>	0.40	Pa · s	
25°C <sup>3</sup>	0.47	Pa · s	
Curing Time <sup>4</sup>	40	hr	
Gel Time	15 to 20	min	

Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	45 to 55		ASTM D2240
Tensile Strength	1.62	MPa	ASTM D638
Tensile Elongation at Break	110	%	ASTM D638
Tear Strength	6.13	kN/m	ASTM D624

#### NOTE

- |    |                                      |
|----|--------------------------------------|
| 1. | Resin                                |
| 2. | Mixed                                |
| 3. | Hardener                             |
| 4. | 24 hours at 77°F + 16 hours at 150°F |

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#### Recommended distributors for this material

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