## InnoGreen® BIO-80D

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

## Message:

InnoGreen® BIO-80D is a 80 shore D 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-80D has been approved by the USDA as a bio preferred product.

General Information					
Features	Renewable Resource Content	Renewable Resource Content			
Agency Ratings	USDA Certified Biobased Product	USDA Certified Biobased Product			
RoHS Compliance	RoHS Compliant				
Appearance	Tan				
Processing Method	Vacuum Casting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity					
Hardener	1.03	g/cm³			
Cured	1.14	g/cm³			
Base Resin	1.20	g/cm³			
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D2566		
Mechanical	Nominal Value	Unit	Test Method		
Flexural Modulus	1380	MPa	ASTM D790		
Flexural Strength	55.2	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact	48	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	°C	ASTM D648		
Thermoset	Nominal Value	Unit	Test Method		
Thermoset Components					
	Mix Ratio by Volume: 100				
Hardener	Mix Ratio by Weight: 100				
	Mix Ratio by Weight: 80				
Resin	Mix Ratio by Volume: 86				
	marketto by volume. co				
Demold Time	120 to 240	min			

Biobased Content	39	%			
Uncured Properties	Nominal Value	Unit	Test Method		
Viscosity					
25°C <sup>1</sup>	0.075	Pa·s			
25°C <sup>2</sup>	0.53	Pa·s			
25°C <sup>3</sup>	2.8	Pa·s			
Curing Time <sup>4</sup>	26	hr			
Gel Time	5.0 to 9.0	min			
Cured Properties	Nominal Value	Unit	Test Method		
Shore Hardness (Shore D)	75 to 85		ASTM D2240		
Tensile Strength	32.1	MPa	ASTM D638		
Tensile Elongation at Break	30	%	ASTM D638		
NOTE					
1.	Resin				
2.	Mixed				
3.	Hardener				
4.	24 hours at 77°F + 2 hours	24 hours at 77°F + 2 hours at 150°F			

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

