

# InnoClear™ OC-5080

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

OC-5080 is a water clear, semi-flexible polyurethane elastomer formulated for hand-batch or vacuum assisted processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI OC-5080 is low viscosity and uses materials that have excellent U.V. resistant qualities.

General Information			
Features	Good UV Resistance		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.07	g/cm³	
Hardener	1.07	g/cm³	
Base Resin	1.07	g/cm³	
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: 35		
Resin	Mix Ratio by Volume: 35		
Demold Time	180 to 300	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C <sup>1</sup>	0.20	Pa·s	
25°C <sup>2</sup>	0.75	Pa·s	
25°C <sup>3</sup>	0.85	Pa·s	
Curing Time <sup>4</sup>	40	hr	
Gel Time	12 to 18	min	
Cured Properties	Nominal Value	Unit	Test Method

Shore Hardness (Shore A)	72 to 82		ASTM D2240
Tensile Strength	5.96	MPa	ASTM D638
Tensile Elongation at Break	95	%	ASTM D638
Tear Strength	10.5	kN/m	ASTM D624

#### NOTE

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



WECHAT