

InnoClear™ OC-5090

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

OC-5090 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-5090 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: 50		
Resin	Mix Ratio by Volume: 50		
Demold Time	120 to 240	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.20	Pa·s	
25°C ²	0.75	Pa·s	
25°C ³	1.0	Pa·s	
Curing Time ⁴	40	hr	
Gel Time	13 to 19	min	
Cured Properties	Nominal Value	Unit	Test Method

Shore Hardness (Shore A)	85 to 95		ASTM D2240
Tensile Strength	14.5	MPa	ASTM D638
Tensile Elongation at Break	65	%	ASTM D638
Tear Strength	39.4	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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