



Product Name

IE-90A Polyurethane



Description

IE-90A is a tough, semi-flexable 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.

Physical Properties

Mix Ratio	Resin:Hardener (parts by weight)		38:100	
Mix Ratio	Resin:Hardener (parts by volume)		35:100	
Viscosity (cps@77°F)	Resin	100	Gel Time	10 ± 3 Minutes
	Hardener	1500	Demold Time*	6 ± 2 Hours
	Mixed	975	Color	Cream
Specific Gravity (g/cc)	Resin	1.20	* Demold time is always mass dependant	
	Hardener	1.09		

Cure 1 ▶ 7 days at 77°F
Cure 2 ▶ N/A

Cured Properties

	Method	Cure 1	Cure 2
Hardness (shore A)	ASTM D-2240	85 ± 5	
Tensile Strength (psi)	ASTM D-638	1,750	
Elongation at Break	ASTM D-638	180%	
Tear Strength (pli)	ASTM D-624	215	
Linear Shrink (in./in.)	ASTM D-2566	0.005	
Specific Gravity (g/cc)		1.12	

Processing Notes

For best results, de-air the material prior to casting, the pressurize to 60 psi until cured. If pigment has been added to the hardener component, it will separate during storage.

Agitate hardener before mixing to ensure that the formula is homogeneous.

Safety and Handling

DO NOT USE UNTIL MSDS HAVE BEEN READ AND UNDERSTOOD. Store containers in a dry location. Partially used containers should be blanketed with dry nitrogen to prevent moisture contamination. Moisture will react with the resin component, creating carbon dioxide gas and a possible pressure increase in the container.

SPECIFICATION WRITERS: The above values are meant to represent typical properties only. Users are encouraged to qualify products in their own laboratories prior to specification publication.

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