



Product Name

IE-35A Polyurethane



Description

IE-35A is a 35 shore A polyurethane formulated for hand-batch processing, meter-mix dispensing or vacuum assisted processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. TD 137-04 is ideal for color-matching due to the clarity of the cured product.

Physical Properties

Mix Ratio	Resin:Hardener (parts by weight)	100:100		
Mix Ratio	Resin:Hardener (parts by volume)	100:100		
Viscosity (cps@77°F)	Resin	200	Gel Time	12.5 ± 2.5 Minutes
	Hardener	2050	Demold Time*	2 ± 1 Hours
	Mixed	850	Color	Translucent
Specific Gravity (g/cc)	Resin	1.21	* Demold time is always mass dependant	
	Hardener	1.21		

Cure 1 ► 24 hours at 77°F + 16 hours at 150°F
Cure 2 ► 7 Days at 77°F.

Cured Properties

	Method	Cure 1	Cure 2
Hardness (shore A)	ASTM D-2240	35 ± 5	35 ± 5
Tensile Strength (psi)	ASTM D-638	250	200
Elongation at Break	ASTM D-638	360%	150%
Tear Strength (pli)	ASTM D-624	45	45
Linear Shrink (in./in.)	ASTM D-2566	.001-.006	.001-.006
Specific Gravity (g/cc)		1.01	1.01

Processing Notes

IE-35A is ideal for custom pigmentation using the proper polyester based pigment. Ask your Innovative Polymers sales representative to learn more about these pigments.

IE-35A may be inhibited by certain silicone rubbers. A test sample should be prepared to verify compatibility. Contact Innovative Polymers, Inc. for more information.

Agitate hardener and resin before mixing to ensure the formula is homogenous.

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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