

Innothane®

Product Name

IE-3070

Excellent Green Strength Rigid

Description

IE-3070 is a rigid polyurethane formulated for hand-batch processing or vacuum cast methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA or TDI. It has excellent green strength yielding enhanced demold characteristics and also yields easy to paint surfaces requiring little preparation.

Physical Properties

Mix Ratio	Resin:Hardener (p	parts by weight)	100:92	
Mix Ratio	Resin:Hardener (parts by volume)		100:100	
Viscosity	Resin	75	Gel Time	8 ± 2 Minutes
(cps@77°F)	Hardener	450	Demold Time*	40 ± 10 Minutes
	Mixed	150	Color	White
Specific Gravity	Resin	1.16	* Demold time is always mass dependant	
(g/cc)	Hardener	1.06		
Peak Exotherm	200g.	230°F		/ marsm

Cured Properties

Cure 1▶7 days at 77°F



	Method	Cure 1
Hardness (shore D)	ASTM D-2240	70 ± 5
Tensile Strength (psi)	ASTM D-638	4,950
Elongation at Break	ASTM D-638	24%
Compression Strength (psi)	ASTM D-695	NA
Compression Modulus (psi)	ASTM D-695	165,000
Ultimate Flex Strength (psi)	ASTM D-790	6,000
Flexural Modulus (psi)	ASTM D-790	145,000
Notched Izod (ft.lbs./in.)	ASTM D-256	0.6
Linear Shrink (in./in.)	ASTM D-2566	.002006
Heat Deflection Temp. (66psi)	ASTM D-648	66°C / 150°F
Heat Deflection Temp. (264psi)	ASTM D-648	62°C / 143°F
Specific Gravity (g/cc)		1.06

Processing Notes

Formulated for hand-batch or vacuum assisted casting equipment. For best results, de-air the material prior to casting, then pressurize to 60 psi until cured.

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

Kit Weights	Quart Kit	1 Gal. Kit	5 Gal. Kit	Drum Kit	
	3.84 lbs.	15.36 lbs.	76.8 lbs.	864 lbs.	

Safety and Handling

DO NOT USE UNTIL MSDSs 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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