

# Innothane®

**Product Name**

**IE-3080**  
**70D/Translucent**

**Description**

IE-3080 is a rigid polyurethane formulated for room temperature hand-batch or vacuum assisted casting methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA or TDI. IE-3080 has a very low mixed viscosity. It is ideal for color-matching due to its neutral semi-transparent appearance.

**Physical Properties**

<b>Mix Ratio</b>	Resin:Hardener (parts by weight)		<b>100:94</b>
<b>Mix Ratio</b>	Resin:Hardener (parts by volume)		<b>100:100</b>
<b>Viscosity</b> (cps@77°F)	Resin	40	<b>Gel Time</b>
	Hardener	250	<b>Demold Time*</b>
	Mixed	100	<b>Color</b>
<b>Specific Gravity</b> (g/cc)	Resin	1.10	* Demold time is always mass dependant
	Hardener	1.03	
<b>Peak Exotherm</b>	200g.	230°F	

**Cured Properties**

Cure 1 ► 7 days at 77°F



	Method	Cure 1
<b>Hardness (shore D)</b>	ASTM D-2240	70 ± 5
<b>Tensile Strength (psi)</b>	ASTM D-638	4,500
<b>Elongation at Break</b>	ASTM D-638	11%
<b>Ultimate Flex Strength (psi)</b>	ASTM D-790	7,800
<b>Flexural Modulus (psi)</b>	ASTM D-790	200,000
<b>Notched Izod (ft.lbs./in.)</b>	ASTM D-256	0.6
<b>Linear Shrink (in./in.)</b>	ASTM D-2566	.005-.010
<b>Heat Deflection Temp. (66psi)</b>	ASTM D-648	60°C / 140°F
<b>Heat Deflection Temp. (264psi)</b>	ASTM D-648	55°C / 131°F
<b>Specific Gravity (g/cc)</b>		1.08

## 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. Contact your Innovative representative to find out more about custom color-matching services.

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

<u>Kit Weights</u>	Quart Kit	1 Gal. Kit	5 Gal. Kit	Drum Kit
	3.88 lbs.	15.52 lbs.	77.6 lbs.	873 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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