



**Product Name**

## IE-20AH Polyurethane



**Description**

IE-20AH is a tough, abrasion resistant polyurethane/polyether based elastomer formulated for hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

**Physical Properties**

<b>Mix Ratio</b>	Resin:Hardener (parts by weight)	<b>100:100</b>		
<b>Mix Ratio</b>	Resin:Hardener (parts by volume)	<b>100:98</b>		
<b>Viscosity</b> (cps@77°F)	Resin	200	<b>Gel Time</b>	10 ± 2 Minutes
	Hardener	1500	<b>Demold Time*</b>	6 ± 2 Hours
	Mixed	600	<b>Color</b>	Cream
<b>Specific Gravity</b> (g/cc)	Resin	1.05	* Demold time is always mass dependant	
	Hardener	1.07		

Cure 1 ▶ 7 Days at 77°F  
Cure 2 ▶ N/A

**Cured Properties**

	Method	Cure 1	Cure 2
<b>Hardness (shore A)</b>	ASTM D-2240	20 ± 5	
<b>Tensile Strength (psi)</b>	ASTM D-638	200	
<b>Elongation at Break</b>	ASTM D-638	175%	
<b>Tear Strength (pli)</b>	ASTM D-624	25	
<b>Linear Shrink (in./in.)</b>	ASTM D-2566	0.003	
<b>Specific Gravity (g/cc)</b>		1.06	

**Processing Notes**

IE-20AH is ideal for custom pigmentation using Innovative Polymers, Inc. pigments.  
**Agitate the hardener and resin before use 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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