

# Innothane®


**Product Name**

**InnoFR™ FX-8575**  
**Fire Extinguish 85D**

**Description**

FX-8575 is a rigid polyurethane formulated hand casting methods. Excellent physical properties can be obtained with a mild post cure without the utilization of mercury, MOCA, or TDI. This material passes UL 94VO.

**Physical Properties**

<b>Mix Ratio</b>	Resin:Hardener (parts by weight)		<b>100:63</b>	
<b>Mix Ratio</b>	Resin:Hardener (parts by volume)		<b>100:72</b>	
<b>Viscosity</b> (cps@77°F)	Resin	60	<b>Gel Time</b>	12.5 ± 2.5 Minutes
	Hardener	875	<b>Demold Time*</b>	1 Hour @150°F
	Mixed	175	<b>Color</b>	Clear
<b>Specific Gravity</b> (g/cc)	Resin	1.26	* Demold time is always mass dependant	
	Hardener	1.10		
<b>Peak Exotherm</b>	(200g)	138°C / 280°F		

**Cured Properties**

Cure 1 ▶ 24 hours at 77°F + 1 hour at 150°F  
 Cure 2 ▶ 7 days at 77°F + 1 hour at 150°F



	<b>Method</b>	<b>Cure 1</b>	<b>Cure 2</b>
<b>Hardness (shore D)</b>	ASTM D-2240	82 ± 5	82 ± 5
<b>Tensile Strength (psi)</b>	ASTM D-638	11200	11600
<b>Elongation at Break</b>	ASTM D-638	6%	5%
<b>Tensile Modulus (psi)</b>		330,000	335,000
<b>Ultimate Flex Strength (psi)</b>	ASTM D-790	14,600	16,300
<b>Flexural Modulus (psi)</b>	ASTM D-790	280,000	350,000
<b>Notched Izod (ft.lbs./in.)</b>	ASTM D-256	0.8	0.8
<b>Linear Shrink (in./in.)</b>	ASTM D-2566	.004-.008	.004-.008
<b>Heat Deflection Temp. (66psi)</b>	ASTM D-648	50°C / 122°F	55°C / 131°F
<b>Specific Gravity (g/cc)</b>		1.23	1.23

## Processing Notes

The hardener side of FX-8575 contains molecular sieve beads which will settle to the bottom of the container. The purpose of the beads is to protect the material from moisture contamination. Make sure care is taken not to mix these beads into your solution.

This material is clear/yellow. It is not UV stable and will discolor over time. Innovative Polymers cannot predict how long it will take for this discoloration to take place.

Due to its clear nature, applications for tinted/translucent parts can be easily created. Innovative Polymers supplies Reactints for this use.

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

<u>Kit Weights</u>	Quart Kit	1 Gal. Kit	5 Gal. Kit	Drum Kit
	3.26 lbs.	13.04 lbs.	65.2 lbs.	733.5 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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