

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

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



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