

## Fire Extinguish 85D

Rigid polyurethane system

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### Key Properties

- Excellent physical properties
- Free of mercury, MOCA or TDI
- UL94 V-0 certified

### Applications

- Formulated for room temperature hand-batch systems

### Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	100	63
		pbv	100	72
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.26	ca. 1.10
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 60	ca. 875

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 175
Gel time at 77°F (25°C)		min	10 - 15
Peak Exotherm	200gr	°F (°C)	280 (138)
Demold time at 150°F (66°C)		h	1

### Cured / Mechanical Properties (approximate values)

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

			Cure 1	Cure 2
Aspect	visual		Clear	Clear
Density	ASTM D-792	g/cm <sup>3</sup>	1.23	1.23
Shore hardness D	ASTM D-2240		77-87	77-87
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	122 (50)	131 (55)
Tensile strength	ASTM D-638	psi	11,200	11,600
Elongation at Break	ASTM D-638	%	6	5
Flexural strength	ASTM D-790	psi	14,600	16,300
Flexural modulus	ASTM D-790	psi	280,000	350,000
Notched Izod	ASTM D-256	ft-lbf/in	0.8	0.8
Linear shrinkage	ASTM D-2566	in/in	0.004-0.008	0.004-0.008

## **Fire Extinguish 85D**

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### **Processing**

**The processing and material temperature should be between 68-77°F (20-25°C).**

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. RAMPF Group Inc. cannot predict how long it will take for this discoloration to take place.

Due to its clear nature, application for tinted/translucent parts can be easily created. RAMPF Group Inc. supplies Reactints for this use.

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

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### **Packaging**

FX-8575 Quart Kit	3.26 lbs.
FX-8575 1 Gal. Kit	13.04 lbs.
FX-8575 5 Gal. Kit	65.2 lbs.
FX-8575 Drum Kit	733.5 lbs.

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### **Storage**

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label.

Partly used containers should always be sealed appropriately and used up as soon as possible.

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### **Handling Precautions**

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.

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