



## 20-2100 FR

### FLEXIBLE, FLAME RETARDANT HIGH PERFORMANCE URETHANE ELASTOMER SYSTEM

#### DESCRIPTION:

20-2100 FR is a two component, room temperature curing, low viscosity polyurethane system for potting, casting, encapsulating and sealing electronic components and assemblies. 20-2100 FR is a flame retardant self extinguishing system. It meets the stringent requirements of UL 94-VO. Designed for ease in use, this system does not contain any MOCA or TDI and is therefore safer to use and less toxic than most urethane systems.

#### FEATURES:

- Low viscosity and good air release
- Hydrolytic stability
- Very high tensile and compressive strength
- Excellent elongation and tear strength
- Outstanding vibration and thermal shock resistance
- Exceptional electrical insulation properties
- Chemical, solvent and moisture resistant

#### PHYSICAL SPECIFICATIONS:

Viscosity, cps @ 25°C Catalyzed	5,500
Standard Color	Grey
Pot Life	40 Minutes
Hardness Shore A	80
Specific Gravity, 25°C/25°C	1.4
Tensile strength, psi	1,600
Thermal conductivity, btu in/ft hr °F	4.5
Thermal expansion coefficient, per °C	15 x 10 <sup>-5</sup>
Operating temperature, °C	-55 to +130
Dielectric strength, volts/mil	630
Dielectric constant, 60 Hz	4.1
Dissipation factor, 60 Hz	.049
Volume resistivity, ohm cm	3.4 x 10 <sup>13</sup>

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**MIXING AND CURING INSTRUCTIONS:**

1. By weight, mix 20 parts Cat.10 (catalyst) to 100 parts Part A (resin). Volume Ratio 100:23.
2. Mix thoroughly and pour.
3. Cure 8-12 hours at room temperature or accelerate with mild heat up to 150°F.

The engineering staff at Epoxies, Etc... is at your service to answer questions about particular requirements. Sample kits are available from stock.

**IMPORTANT:**

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

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