

## 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	$15 \times 10^{-5}$
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	$3.4 \times 10^{13}$



## 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:

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