

# Epoxies, Ect. 20-2362 FR

Polyurethane

Epoxies, Etc.

## Message:

The 20-2362FR potting and encapsulating compound has been formulated to meet the stringent non-burning requirements of UL 94 V-0. 20-2362FR is listed with Underwriter's Laboratory for passing UL 94 V-0. This system offers a unique combination of properties. 20-2362 is very low in viscosity, flame retardant, has a glass transition temperature of -72 ° C, and has low moisture permeability. This product forms a soft elastomer that will cushion and protect sensitive electronic components.

Features:

- Flame Retardant - UL 94 V-0 listed
- Low Viscosity
- Low Durometer
- Low shrinkage and exotherm
- Excellent moisture resistance
- Maintains flexibility at low temperatures
- RoHS and REACH compliant

Benefits:

- May be used in applications requiring FR
- Quick self-leveling around components
- Low stress on components & vibration resistance
- Will not damage components during cure
- Will not absorb H 2 O and can be used in wet environments
- Can be used in very cold environments
- Finished products are export compliant

General Information		
Features	Flame Retardant	
	Good Flexibility	
	Low Exotherm	
	Low Shrinkage	
	Low Temperature Flexibility	
	Low to No Water Absorption	
	Low Viscosity	
Uses	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
RoHS Compliance	RoHS Compliant	
UL File Number	E235584	
Appearance	Black	
Processing Method	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
Glass Transition Temperature	-72.0	°C
CLTE - Flow	2.3E-4	cm/cm/°C
Electrical	Nominal Value	Unit

Surface Resistivity	1.0E+16	ohms
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	2500	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-40.0 to 125	°C
Uncured Properties	Nominal Value	Unit
Color	Black	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	22	
Density		
25°C <sup>1</sup>	1.21	g/cm <sup>3</sup>
25°C <sup>2</sup>	1.24	g/cm <sup>3</sup>
Viscosity		
25°C <sup>3</sup>	0.32	Pa·s
25°C <sup>4</sup>	7.5	Pa·s
Curing Time		
80°C	1.0	hr
65°C	2.0	hr
25°C	24	hr
Pot Life <sup>5</sup> (25°C)	20	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	90	
Tensile Strength	2.76	MPa
Tensile Elongation at Break	40	%
Relative Permittivity (1 kHz, 25°C)	4.50	
Volume Resistivity	6.0E+16	ohms·cm
NOTE		
1.	Part A	
2.	Part B	
3.	Part B	
4.	Part A	
5.	100 gram mass	

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