

20-3221

LOW VISCOSITY EPOXY POTTING AND ENCAPSULATING RESIN

DESCRIPTION:

20-3221 is a very low viscosity epoxy potting, casting and encapsulating resin system. 20-3221 is a filled system resulting in excellent dimensional stability and low shrinkage.

20-3221 offers outstanding physical, thermal and electrical insulation properties. It also provides excellent resistance to chemicals, moisture, solvents and environmental exposure.

20-3221 has been formulated for ease in handling. Its low viscosity aids in pouring, filling voids and air pockets. In addition, the fillers in 20-3221 have been dispersed to minimize any heavy settling.

TYPICAL SPECIFICATIONS:

Mix viscosity, @ 25°C cps	6,000
Pot life, @ 25°C	
with Catalyst 30	4 Hours
with Catalyst 190	30 Minutes
Cure shrinkage, in/in	0.0018
Specific gravity, 25°C	1.12
Hardness, Shore D	88
Tensile strength, psi	7,500
Compressive strength, psi	16,000
Flexural strength, psi	12,500
Izod impact, ft-lb/in	0.30
Water absorption, @ 25°C, %	0.009
Machinability	Excellent
Thermal Expansion Coefficient/°F	28.5×10^{-6}
Thermal Conductivity, W/m-°K	0.65

INSTRUCTIONS FOR USE:

A. ROOM TEMPERATURE CURING WITH CATALYST 190:

1. By weight, thoroughly mix 7 parts Catalyst 190 to 100 parts 20-3221 Resin.
2. Pour and cure 12 hours at room temperature or accelerate with mild heat (80-90°F).

B. HEAT CURING WITH CATALYST 30 (Recommended for higher operating temperature and physical property applications):

1. By weight, thoroughly mix 12.5 parts Catalyst 30 to 100 parts 20-3221 Resin.
2. Pour and cure according to one of the following recommended cure schedules:
 - a) 85°C (185°F) 3-4 hours
 - b) 100°C (212°F) 2-3 hours

For optimum performance, an additional 2 hours @ 365°F (185°C) is recommended.



IMPORTANT:

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