Developmental Sample Laboratory Data Sheet

DPE092100-1 with HARDENER RT-7 Blend

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PRODUCT DESCRIPTION

DPE092100-1 with Hardener RT-7 Blend is a versatile epoxy casting system which has been designed for use as a high performance, production potting and encapsulating system where low shrinkage is required. It has a very low surface tension and a flowable viscosity, which affords excellent air release. This material adheres to rigid plastics and laminates, metals and ceramics, has a low coefficient of thermal expansion and is readily machined and shaped with ordinary shop tools. The fully cured epoxy system is an excellent electrical insulator which provides good resistance to electrolysis, water, weather, gases and chemical compounds including mild acids and alkalis, many corrosive salts and salt solutions, petroleum products, lubricants and other organic and inorganic materials.

DEVELOPMENTAL PRODUCT

This data was generated on laboratory material and should not be used for specification purposes. The Developmental Product name and designation may change upon commercialization.

Physical Properties

Color:	Clear-White
Operating Temperature Range, °C:	-60 to 100
Heat Distortion Temperature, °C:	60
Tensile Strength, psi:	>6,000
Compressive Strength, psi:	>12,000
Hardness, Shore D:	88
Coefficient of Expansion, cm/cm, °C:	0.000038
Dielectric Strength, Volts/Mil:	>400
Dissipation Factor, 100 KHz @ 25°:	0.01
Shear Strength, psi:	>1,500

Handling Characteristics

Mix-Ratio by Weight,	
Resin to Hardener	100 to 18
Viscosity of Hardener,	
RVT #3 @ 50 rpm, 25°C:	30 cps
Viscosity of Resin, @ 25°C	15,000 cps
Mixed Viscosity,	
RVT #2 @ 20rpm, 25°C:	700-1000 cps
Specific Gravity of Resin:	1.48
Specific Gravity of Hardener:	0.98
Pot Life @ 25°C, 150 Gram Mass:	60 Minutes
Cure Schedule @ 65°C	1 to 2 Hours

Storage

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

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