



# Scotchcast™ Reenterable Electrical Insulating Resin 2123

## Data Sheet

### Product Description

3M™ Scotchcast™ Reenterable Electrical Insulating Resin 2123 is a soft, two-part polybutadiene resin encapsulant designed especially for reenterable splice protection. Scotchcast 2123 is formulated for virtually every electrical application requiring a soft, reenterable resin with good handling and performance characteristics. Scotchcast 2123 is also used as the insulating material for cable splices operating at 1000 volts or less and is rated for continuous use at 194°F (90°C) with an overload rating of 266°F (130°C). It may be stocked to cover all reenterable resin needs, ending the need for multiple encapsulant inventories. Low temperature use minimum -20°C

This resin is a two-part polybutadiene and is formulated with excellent wetting properties and low viscosity. Scotchcast 2123 flows well even at low temperatures, filling the closure and minimizing voids. Resin should be warmer than 40°F (4.4°C) for mixing and pouring.

Scotchcast 2123 is packaged in the convenient 3M™ two-part Unipak™ bag. The contents of the Unipak bags are:

Size C	12.3 ounces (350 gms)
Size D	21.1 ounces (600 gms)
Size H	52.8 ounces (1500 gms)

### Resin Features:

- Bonds to most cable jackets
- Bonds to itself and existing Scotchcast™ 2112
- Reenterable
- Unipak container for easy mixing and pouring
- Excellent multi-purpose moisture sealing resin

### Other Applications

- To replace or repair the jacket on both single and multicore power cables.
- To seal the crotch or sheath when terminating multicore cables.

### Physical and Electrical Properties

#### Physical Properties

Test Method	Typical Value*
Color	Amber, Transparent
Density	0.53 oz/in <sup>3</sup> (0.91 g/cm <sup>3</sup> )
Tensile Strength (ASTM D-412)	10.7 psi (0.75 Kg/cm <sup>2</sup> )
Elongation (ASTM D-412)	300%
Tear Strength (ASTM D-624)	1.6 lb/in at 75°F (595 N/m at 24°C)
Maximum Exotherm (100 g) (3M Test Method)	6°F rise (3°C rise)
Gel Time @ 73°F (23°C)	62 min.
Moisture Absorption (ASTM D-570)	0.2%

#### Electrical Properties

Test Method	Typical Value*
Insulation Resistance (MS 17000, Section 1182)	> 4 x 10 <sup>11</sup> ohms
Dielectric Strength (ASTM D-149)	>240 V/mil @ 23°C 125 mils thickness
Dielectric Constant (ASTM D-150)	<1.2 100 Hz, 23°C
Dissipation Factor (ASTM D-150)	0.0008 100 Hz, 23°C

\* These are typical values and should not be used for specification purposes.

## Storage

Scotchcast™ 2123 resin is stable for a period of two years from the date of manufacture providing the Guard Bag (the white aluminized bag) is not opened when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40 to 50% relative humidity. Good stock rotation is also recommended. If the guard bag is removed, the shelf life could be reduced to as little as two weeks under conditions of high humidity.

## Availability

3M Scotchcast 2123 resin is available from your electrical distributor.

Refer to Material Safety Data Sheet for health, safety and environmental information.

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