



# Scotchcast™ 2112

## Reenterable Electrical Insulating Resin

### Data Sheet

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#### 1. Product Description

Scotchcast™ 2112 Reenterable Electrical Insulating Resin is a soft, two-part polybutadiene resin encapsulant designed especially for reenterable splice protection. 2112 is formulated for virtually every electrical application requiring a soft, reenterable resin with good handling and performance characteristics. Scotchcast™ 2112 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.

This resin is a two-part polybutadiene and is formulated with excellent wetting properties and low viscosity. 2112 flows well, even at low temperatures, filling the closure and minimizing voids.

Scotchcast™ 2112 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)

##### Resin Features:

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

#### 2. Applications

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

#### 3. Physical and Electrical Properties

##### Physical Properties

<u>Test Method</u>	<u>Typical Value*</u>
• Color	Amber, Transparent

• Density	0.52 oz/in <sup>3</sup> (0,901 g/cm <sup>3</sup> )
• Tensile Strength (ASTM D-412)	18.3 psi (1,63 Kg/cm <sup>2</sup> )
• Elongation (ASTM D-412)	94%
• Maximum Exotherm (100 g) (3M Test Method)	1°F rise (0,6°C rise)
• Gel Time @ 73°F (23°C)	69 min.
• Moisture Absorption (ASTM D-570)	0.04%

##### Electrical Properties

<u>Test Method</u>	<u>Typical Value*</u>
• Insulation Resistances (MS 17000, Section 1182)	> 1 x 10 <sup>9</sup> Mohms

\* Typical values, not intended for specification purposes.

#### 4. Maintenance

Scotchcast™ 2112 resin is stable for a period of two year from 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. Scotchcast™ 2112 is not impaired by freezing; however it should be warmed to at least 40°F (4.4°C) before being mixed or poured.

#### 5. Availability

3M Scotchcast™ 2112 resin is available from your electrical distributor.

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

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