



# TECHNICAL DATA SHEET

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## **DOLPHON<sup>®</sup> CC-1096**

### **SOLVENTLESS POLYESTER TRICKLE RESIN**

#### **PRODUCT DESCRIPTION**

CC-1096 is a solventless polyester resin utilizing Styrene monomer designed to offer fast cures at low temperatures.

<b>FEATURES &amp; BENEFITS</b>	
<ul style="list-style-type: none"><li>• Fast cures at low temperatures</li><li>• High bond strength at elevated temperatures</li><li>• Gives thorough penetration of fine wire sizes with conventional trickle processing technologies</li></ul>	<ul style="list-style-type: none"><li>• Included in UL systems to 180° C</li><li>• Non-bubbling</li><li>• Low viscosity</li></ul>

<b>TYPICAL APPLICATIONS</b>	
<ul style="list-style-type: none"><li>• Automotive</li><li>• Appliance</li></ul>	<ul style="list-style-type: none"><li>• Armatures</li><li>• Electric motor stators</li><li>• Power tools</li></ul>

#### **TYPICAL PROPERTIES**

##### **Physical**

<b>Color/Appearance</b>	<b>Clear/Amber</b>
<b>Density @ 77°F (25°C), Lbs/gal</b>	<b>8.8 – 9.4</b>
<b>Viscosity, Brookfield, Model RVT, #1 Spindle, 10 RPM, @ 77°F (25°C), cps</b>	<b>100 - 300</b>
<b>Flash Point, °F</b>	<b>86</b>
<b>Gel Time @ 212°F (100°C), (with 1% CA-2011), min.</b>	<b>7 - 14</b>

##### **Mechanical**

<b>Bond Strength, Helical Coil Method, lbs to break</b>	<b>@ 25°C</b>	<b>36</b>
	<b>@ 150°C</b>	<b>9</b>

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**THERMAL CLASS (UL 1446)**

<b>Twisted Pairs</b>	<b>MW16</b>	<b>220</b>
	<b>MW28</b>	<b>130</b>
	<b>MW35</b>	<b>180</b>
	<b>MW76</b>	<b>180</b>

**APPLICATION AND CURE**

CC-1096 was formulated especially for trickle applications. Following is a suggested trickle cycle for armatures weighing approximately one pound.

**Preparation of Unit**

1. Preheat parts to 180° F.
2. Trickle resin for 15 seconds.
3. Cure to 260° F for approximately 5 minutes.\*

*\*Temperatures were recorded on the laminations. (Winding temperatures should be 20 - 30° higher.)*

**ADDING THE CATALYST**

CC-1096 must be catalyzed to achieve a cure. CA-2011 is the recommended catalyst. CA-2011 is a liquid, and one percent (1%) by weight is added to obtain a cure. Small quantities of the resin-catalyst mixture, generally a quantity sufficient for one day's run, should be made up. **Caution:** To prevent rapid polymerization and potential fire hazard, be sure that the resin is at room temperature before you add the catalyst.

**EQUIPMENT RECOMMENDATIONS AND PRECAUTIONS**

CC-1096 will react with copper, copper alloys and natural rubber. Therefore, do not use these materials in the tank or recirculating system. Tanks should be constructed of black iron or stainless steel and flexible fittings should be made of synthetic rubber or plastic.

**STORAGE AND SHELF LIFE**

Shelf life uncatalyzed CC-1096 is six months from date of shipment from our plant, when stored in closed containers at 70°F or below.

1. Store in cool, dry place at 70°F/21°C or below.
2. Protect from direct sunlight.
3. Keep away from heat, sparks and open flame.

**ENVIRONMENTAL SAFETY**

Avoid contact with skin and eyes. See Material Safety Data Sheet

**AUTHORIZED DISTRIBUTOR**