



# CORVE8101-45SS

## Vinyl Ester Resin

### Technical Data Sheet

CORVE8101-45SS is a promoted, low viscosity, corrosion resistant, vinyl ester resin for use in centrifugal casting, pultrusion, and RTM applications. CORVE8101-45SS is manufactured from ingredients listed as acceptable in the FDA Code of Federal Regulation Title 21, CFR 177.2420. This resin may be safely used as a component of article intended for single or repeated use in contact with food as prescribed in the regulation.

FEATURES	BENEFITS
<ul style="list-style-type: none"> <li>Moderate Laminate Exotherm</li> </ul>	<ul style="list-style-type: none"> <li>Good cosmetic surface and minimal glass print</li> </ul>
<ul style="list-style-type: none"> <li>Fast Trim Time</li> </ul>	<ul style="list-style-type: none"> <li>Shorter cycle time and fast Barcol development</li> </ul>
<ul style="list-style-type: none"> <li>Good Fiberglass Wet-Out</li> </ul>	<ul style="list-style-type: none"> <li>Easy roll-out and high laminate physical properties</li> </ul>
<ul style="list-style-type: none"> <li>Promoted for Ease of Application</li> </ul>	<ul style="list-style-type: none"> <li>Good gelation properties with low foaming quality</li> </ul>

RELATED PRODUCTS	GEL TIME
CORVE8101-45	15-18 Minutes
CORVE8101-45S	20-25 Minutes

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #3 Spindle @ 60 rpm, 77°F (25°C), cps	200-300
100 grams resin @ 77°F (25°C), initiated with 1.2% MEKP-925H by volume *	
Gel Time, min:sec	28:00-32:00
Gel to Peak Exotherm Time, min:sec	10:00-20:00
Peak Exotherm	330-360°F (165-182°C)
Non-Volatile Content, %	53.5-56.5
Hazardous Air Pollutant (Styrene) Content, %	43.5-46.5
Specific Gravity	1.03-1.05

TYPICAL PROPERTIES		
Thickness	1/8 inch (3.2 mm) Casting	
Construction	Not Applicable	
Flexural Strength, ASTM D790	19,000 psi	131 MPa
Flexural Modulus, ASTM D790	4.7 x 10 <sup>5</sup> psi	3,240 MPa
Tensile Strength, ASTM D638	12,000 psi	83 MPa
Tensile Modulus, ASTM D638	4.9 x 10 <sup>5</sup> psi	3,379 MPa
Tensile Elongation, ASTM D638	4.5 %	4.5 %
Barcol Hardness, 934-1 gauge, ASTM D2583	36	36
Heat Distortion Temperature, ASTM D648	210 °F	99 °C

\* Gel time and reactivity will vary due to the type and concentration of Free Radical Initiator (catalyst), shop temperature, humidity, and type of fillers used. In order to meet your individual needs consult our technical sales representative for assistance. If using methyl ethyl ketone peroxide (MEKP) to gel and cure CoREZYN® vinyl ester resins, we recommend only these three brands: Cadox® L-50a (Akzo Nobel); Luperox® DHD-9 (Arkema); and Norox® MEKP-925 (United Initiators). These must be used at the appropriate percentage and suitable temperature. Contact your Interplastic Corporation representative for assistance.

All specifications and properties specified above are approximate. Specifications and properties of material delivered may vary slightly from those given above. Interplastic Corporation makes no representations of fact regarding the material except those specified above. No person has any authority to bind Interplastic Corporation to any representation except those specified above. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the Buyer. Our technical sales representatives will assist in developing procedures to fit individual requirements, but all advice is accepted at your risk and should be checked for suitability to your particular processes. These test data and properties are based on results obtained for a specific material under the specified test conditions. They are not to be used as specifications and are not warranted as performance attributes for any product or system. Specifications and properties of standard production material may vary slightly from those in this report. Interplastic Corporation makes no warranties regarding any material and/or samples described in this report unless that representation is provided to your company in writing by a Technical Director of Interplastic Corporation or one of his or her managers.

**INTERPLASTIC CORPORATION**  
 2015 Northeast Broadway Street  
 Minneapolis, Minnesota 55413-1775  
 651.481.6860 Fax 612.331.4235  
[www.interplastic.com](http://www.interplastic.com)