



# CORVE8101

## Vinyl Ester Resin

### Technical Data Sheet

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

FEATURES	BENEFITS
• Moderate Laminate Exotherm	• Good cosmetic surface and minimal glass print
• Fast Trim Time	• Shorter cycle time and fast Barcol development
• Good Fiberglass Wet-Out	• Easy roll-out and high laminate physical properties
• Promoted for Ease of Application	• Good gelation properties with low foaming quality

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #2 Spindle @ 60 rpm, 77°F (25°C), cPs	80-120
100 grams resin @ 77°F (25°C), initiated with 1.2% MEKP-925H by volume *	
Gel Time, min:sec	16:00-19:00
Gel to Peak Exotherm Time, min:sec	10:00-14:00
Peak Exotherm	350-380°F (176-193°C)
Non-Volatile Content, %	49.0-52.0
Hazardous Air Pollutant (Styrene) Content, %	48.0-51.0
Specific Gravity	1.01-1.04

TYPICAL PROPERTIES				
Thickness	1/8 inch (3.2 mm) Casting		1/8 inch (3.2 mm) Laminate	
Construction	Not Applicable		66% Glass Reinforcement	
Flexural Strength, ASTM D790	19,000 psi	131 MPa	44,900 psi	310 MPa
Flexural Modulus, ASTM D790	4.7 x 10 <sup>5</sup> psi	3,240 MPa	19.6 x 10 <sup>5</sup> psi	13,500 MPa
Tensile Strength, ASTM D638	11,800 psi	81 MPa	28,400 psi	196 MPa
Tensile Modulus, ASTM D638	4.9 x 10 <sup>5</sup> psi	3,380 MPa	26.6 x 10 <sup>5</sup> psi	18,350 MPa
Tensile Elongation, ASTM D638	4.5 %	4.5 %	1.5 %	1.5 %
Barcol Hardness, 934-1 gauge, ASTM D2583	36	36	55-60	55-60
Heat Distortion Temperature, ASTM D648	210 °F	99 °C	-- °F	-- °C
Compressive Strength, ASTM D695	26,400 psi	182 MPa	-- psi	-- MPa

\* 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 (Nouryon); 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.

Interplastic Corporation makes no warranties regarding any material and/or samples described in this report. All properties specified above are approximate and may vary from material delivered. Delivered material complies with the certificate of analysis on each shipment of product. Interplastic Corporation makes no representations of fact regarding the material except those specified above. Final determination of part or application and 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 as a customer accommodation, but all advice is accepted at your risk and should be checked for suitability to your particular processes and needs. 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.

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