



# COR75-AA-861HR

## Corrosion Isophthalic Resin

### Technical Data Sheet

COR75-AA-861HR is part of a series of specially designed corrosion resistant resins that meet the sophisticated demands of modern technology in various corrosion applications.

See CoREZYN® Isophthalic Resins brochure publication 8/05 A-002a for corrosion recommendations.

FEATURES	BENEFITS
• Moderate Hardness Development	• Good cycle times and dimensional stability
• Corrosion Resistant	• Works in a wide variety of environments
• Good Fiberglass Wet-Out	• High physical properties in application
• Excellent Physical Strengths	• Works well in thick cross sections

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model RVF #2 Spindle @ 20 rpm, 77°F (25°C), cps	450-650
Thixotropic Index	2.0-3.0
50 grams resin @ 77°F (25°C), initiated with 0.625 grams DDM-9 *	
Gel Time, min:sec	17:00-21:00
Gel to Peak Exotherm Time, min:sec	7:00-16:00
Peak Exotherm	340-380°F (171-193°C)
Non-Volatile Content, %	52.0-55.0
Specific Gravity	1.05-1.10

TYPICAL PROPERTIES				
Thickness	1/8 inch (3.2 mm) Casting		1/8 inch (3.2 mm) Laminate	
Construction	Not Applicable		4 Plies 1.5 oz/ft <sup>2</sup> , 33% Glass Mat	
Flexural Strength, ASTM D790	18,500 psi	128 MPa	25,000 psi	172 MPa
Flexural Modulus, ASTM D790	5.4 x 10 <sup>5</sup> psi	3,724 MPa	11.5 x 10 <sup>5</sup> psi	7,931 MPa
Tensile Strength, ASTM D638	9,500 psi	66 MPa	16,000 psi	110 MPa
Tensile Modulus, ASTM D638	5.5 x 10 <sup>5</sup> psi	3,793 MPa	11.7 x 10 <sup>5</sup> psi	8,069 MPa
Tensile Elongation, ASTM D638	1.7 %	1.7 %	2.0 %	2.0 %
Barcol Hardness, 934-1 gauge, ASTM D2583	45	45	45	45
Heat Distortion Temperature, ASTM D648	220 °F	104 °C	-- °F	-- °C
Compressive Strength, ASTM D695	26,400 psi	182 MPa	-- psi	-- MPa

\* The 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.

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. The Thermoset Resins Division's technical sales representatives will assist in developing procedures to fit individual requirements.

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