



INTERPLASTIC CORPORATION  
Thermoset Resins Division

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## TECHNICAL DATA SHEET: COR75-AQ-010S

**COR75-AQ-010S** is a promoted, thixotropic, corrosion resistant, isophthalic resin that meets the sophisticated demands of modern technology in various corrosion applications. **COR75-AQ-010S** is manufactured from ingredients listed as acceptable in the Code of Federal Regulation Title 21, CFR 177.2420. This resin may be safely used as a component of articles intended for single or repeated use in contact with food as prescribed in the regulation.

### FEATURE: BENEFIT

Moderate laminate exotherm:	Even cure throughout laminate
Fast hardness development:	Good cycle times and dimensional stability
Corrosion resistant:	Works in a variety of environments
Good fiberglass wet-out:	Easy roll-out and high laminate physical properties
Excellent physical strengths:	Composites resist fatigue

### RELATED PRODUCTS:

COR75-AQ-010W Gel Time = 9-12 Minutes COR75-AQ-010 Gel Time = 15-20 Minutes

### LIQUID PROPERTIES

Viscosity, Brookfield Model LV #3 Spindle @ 60 rpm, 77°F (25°C), cps	400-550
Thixotropic Index	2.2-3.0
100 grams resin @ 77°F (25°C), catalyzed with 1.0% DDM-9 by volume *	
Gel Time, min:sec	24:00-28:00
Gel to Peak Exotherm Time, min:sec	12:00-18:00
Peak Exotherm	290-355°F (143-179°C)
Non-Volatile Content, %	50.5-55.5
Specific Gravity	1.05-1.08

TYPICAL PROPERTIES:	Thickness Construction	1/8 inch (3.2 mm) Casting <i>Not applicable</i>				1/8 inch (3.2 mm) Laminate 4 plies, 1.5 oz/ft <sup>2</sup> , 33% glass mat			
Flexural Strength, ASTM D790		21,650	psi	149	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		11,000	psi	76	MPa	16,000	psi	110	MPa
Tensile Modulus, ASTM D638		5.6 x 10 <sup>5</sup>	psi	3,586	MPa	11.7 x 10 <sup>5</sup>	psi	8,069	MPa
Tensile Elongation, ASTM D638		2.4	%	2.4	%	2.0	%	2.0	%
Barcol Hardness, 934-1 gauge, ASTM D2583		42		42		45		45	
Heat Distortion Temperature, ASTM D648		214	°F	101	°C				

\* 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.

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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.