



COR75-AQ-393M

Isophthalic Corrosion Resin

Technical Data Sheet

COR75-AQ-393M is a thixotropic, promoted, isophthalic, chemical resistant polyester resin for hand lay-up or spray-up applications. This resin contains <45% styrene. See "CoREZYN® Isophthalic Corrosion Resistant Resins" publication 8/08 B-056b for corrosion recommendations. COR75-AQ-393M 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 articles intended for single or repeated use in contact with food as prescribed in the regulation.

FEATURES	BENEFITS
• Fast Hardness Development	• Good cycle times and dimensional stability
• Corrosion Resistance	• Works in a variety of environments
• Fast Fiberglass Wet-Out and Adhesion	• Easy roll-out and high laminate physical properties
• Excellent Physical Strengths and High Heat Distortion Resistance	• Composites resist fatigue

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV, #3 Spindle @ 60 rpm, 77°F (25°C), cPs	550-600
Thixotropic Index	2.7-3.0
100 grams resin @ 77°F (25°C), initiated with 1.25% DDM-9 by volume	
Gel Time, min:sec	13:00-17:00
Gel to Peak Exotherm Time*, min:sec	7:00-15:00
Peak Exotherm	365-405 °F (185-207 °C)
Hazardous Air Pollutant (Styrene) Content, %	40.00-44.99
Specific Gravity	1.05-1.09

*Denotes guideline indicating typical results; not an actual specification of the product.

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 ² , 33% Glass Mat	
Flexural Strength, ASTM D790	18,500 psi	128 MPa	26,900 psi	186 MPa
Flexural Modulus, ASTM D790	5.4 x 10 ⁵ psi	3,724 MPa	8.47 x 10 ⁵ psi	5,841 MPa
Tensile Strength, ASTM D638	9,500 psi	66 MPa	17,800 psi	123 MPa
Tensile Modulus, ASTM D638	5.5 x 10 ⁵ psi	3,793 MPa	11.4 x 10 ⁵ psi	7,862 MPa
Tensile Elongation, ASTM D638	1.7 %	1.7 %	2.0 %	2.0 %
Barcol Hardness, 934-1 gauge, ASTM D2583	45	45	40	40
Heat Distortion Temperature, ASTM D648	220 °F	104 °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.

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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