LR ISO TOOL

Isophthalic Corrosion Resin

Technical Data Sheet

LR ISO TOOL resin is part of a series of specially designed corrosion resistant resins that meet the sophisticated demands of modern technology in various corrosion applications.

LR ISO TOOL contains a maximum styrene content of 46%, meeting the Maximum Achievable Control Technology (MACT) requirements for non-atomized, spray-up, corrosion resistant resin. This resin also meets the requirements of California's SCAQMD Rule 1162 for corrosion resistant resins. LR ISO TOOL contains an odor-masking agent.

FEATURES	BENEFITS
• Moderate Hardness Development	• Good cycle times with minimal exotherm
• Corrosion Resistant	• Works in a variety of environments
• Promoted Resin System	• Ready to use in customer applications
• Less Than 46% HAP Styrene Content	• Meets many requirements for low HAP content
• Contains an Odor-Masking Agent	• Minimizes odor during spray-up
• Good Fiberglass Wet-Out	• Works well in thick cross sections

RELATED PRODUCTS	GEL TIME
LR ISO TOOL	17-23 Minutes

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model RV #2 Spindle @ 20 rpm, 77°F (25°C), cPs	500-625
Thixotropic Index	2.0-3.0
50 grams resin @ 77°F (25°C), initiated with 1.25% DDM-9 by weight *	
Gel Time, min:sec	6:00-12:00
Gel to Peak Exotherm Time, min:sec	4:00-12:00
Peak Exotherm	340-400°F (171-204°C)
Non-Volatile Content, %	54.0-57.0
Hazardous Air Pollutant (Styrene) Content, %	42.0-46.0
Specific Gravity	1.07-1.10

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^2, 33% Glass Mat			
Flexural Strength, ASTM D790	18,500	psi	128	MPa	25,000	psi	172	MPa
Flexural Modulus, ASTM D790	5.4 x 10^5	psi	3,724	MPa	1.15 x 10^5	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 10^5	psi	3,793	MPa	1.17 x 10^5	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

* 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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