



INTERPLASTIC CORPORATION
Thermoset Resins Division

COR63-AA-017

Low Exotherm Laminating Technical Data Sheet

COR63-AA-017 is a semi-rigid, orthophthalic, unsaturated polyester laminating resin designed for use in medium to thick laminates such as boat hulls and decks.

FEATURES	BENEFITS
• Low Exotherm and Even Cure	• Low distortion in thick areas
• Excellent Glass Wetting	• Excellent surface profile
• High Physical Properties	• Excellent Impact resistance and flexural strength
• Good Trim Time	• Flexible working time

RELATED PRODUCTS	GEL TIME
COR63-AA-017W	12-16 Minutes
COR63-AA-017S	20-25 Minutes

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #3 Spindle @ 60 rpm, 77°F (25°C), cps	400-450
Thixotropic Index	3.0-3.8
100 grams resin @ 77°F (25°C), catalyzed with 1.0% Hi-Point 90 by volume *	
Gel Time, min:sec	15:00-20:00
Gel to Peak Exotherm Time, min:sec	8:00-20:00
Peak Exotherm	275-315°F (135-157°C)
Non-Volatile Content, %	52.0-56.0
Hazardous Air Pollutant (Styrene) Content, %	44.0-48.0
Specific Gravity	1.02-1.14

TYPICAL PROPERTIES	1/8 Inch (3.2 mm) Casting		1/8 Inch (3.2 mm) Laminate	
	Not Applicable		4 Piles 1.5 oz/ft ² , 33% Glass Mat	
Flexural Strength, ASTM D790	15,000 psi	103 MPa	28,500 psi	197 MPa
Flexural Modulus, ASTM D790	5.5 x 10 ⁵ psi	3,780 MPa	11.0 x 10 ⁵ psi	7,590 MPa
Tensile Strength, ASTM D638	8,800 psi	61 MPa	15,600 psi	108 MPa
Tensile Modulus, ASTM D638	5.80 x 10 ⁵ psi	4,000 MPa	12.3 x 10 ⁵ psi	8,480 MPa
Tensile Elongation, ASTM D638	1.4 %	1.4 %	1.8 %	1.8 %
Compression Strength, ASTM D965	-- psi	-- MPa	23,500 psi	162 MPa
Barcol Hardness, 934-1 gauge, ASTM D2583	40-43	40-43	42-46	42-46
Heat Distortion Temperature, ASTM D648	183 °F	83 °C	-- °F	-- °C
24-Hour Water Absorption @ 23°C, ASTM D570	0.11 %	0.11 %	-- %	-- %
2-Hour Water Absorption @ 100°C, ASTM D570	0.42 %	0.42 %	-- %	-- %

* 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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Revised: 4/07