COR61-AA-548
DCPD Laminating Resin
Technical Data Sheet

COR61-AA-548 is a low profile, low shrink, DCPD, unsaturated polyester laminating resin. This resin is promoted, thixotropic, and formulated to be initiated with MEKP only. COR61-AA-548 is used in the manufacture of glass fiber reinforced composites. This product is not recommended for use in composites that will have prolonged exposure to water, e.g. large marine craft.

FEATURES	BENEFITS
• Low Laminate Exotherm	• Good cosmetic surface and minimal glass print
• Moderate Trim Time	• Good cycle times and moderate Barcol development
• Excellent Fiberglass Wet-Out	• Easy roll-out and high laminate physical properties
• Excellent Toughness	• High resistance to cracking and torsional stress
• Less Than 32% HAP (Styrene)	• Less odor and lower emissions in the shop

RELATED PRODUCTS	GEL TIMES
COR61-AA-548	18-23 Minutes
COR61-AA-548S	23-28 Minutes

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model RV #3 Spindle @ 50 rpm, 77°F (25°C), cPs	400-525
Thixotropic Index	2.75-3.40
100 grams resin @ 77°F (25°C), initiated with 1.00% DDM-9 by volume*	
Gel Time, min:sec	18:00-23:00
Gel to Peak Exotherm Time, min:sec	7:00-15:00
Peak Exotherm	260-310°F (127-154°C)
Non-Volatile Content, %	66.0-70.0
Hazardous Air Pollutant (Styrene) Content, %	≤ 32.0
Specific Gravity	1.02-1.14

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	11,700	psi	80	MPa	20,000	psi	140	MPa
Flexural Modulus, ASTM D790	5.22 x 10^5	psi	3,600	MPa	12.0 x 10^5	psi	8,280	MPa
Tensile Strength, ASTM D638	6,700	psi	46	MPa	10,900	psi	75	MPa
Tensile Modulus, ASTM D638	4.84 x 10^5	psi	3,340	MPa	12.4 x 10^5	psi	8,550	MPa
Tensile Elongation, ASTM D638	1.50	%	1.50	%	1.24	%	1.24	%
Barcol Hardness, 934-1 gauge, ASTM D2583	35		35		50		50	
Heat Distortion Temperature, ASTM D648	182	°F	83	°C	--		--	

* 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.

Testing conducted at 77°F (25°C) and 50% relative humidity. Results may depend on post-cure and batch variations within nominal blend component compositions.

The air-curing capabilities of DCPD laminating resins are well documented. Ambient temperature, catalyst level, laminate thickness and configuration can all contribute to accelerating and surface cure. Care must be taken to ensure that secondary laminates have good adhesion. Cured surfaces should be sanded between laminates.

Revised: 08/2021

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