

COR61-AA-545 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-545 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 29% HAP (Styrene)	• Less odor and lower emissions in the shop

RELATED PRODUCTS	GEL TIME
COR61-AA-545W	12-17 Minutes
COR61-AA-545S	23-30 Minutes
COR61-AA-545SS	30-36 Minutes
COR61-AA-545D	40-47 Minutes

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #3 Spindle @ 60 rpm, 77°F (25°C), cps	400-525
Thixotropic Index	2.75-3.40
100 grams resin @ 77°F (25°C), initiated with 1.0% DDM-9 by volume *	
Gel Time, min:sec	18:00-23:00
Gel to Peak Exotherm Time, min:sec	7:00-12:00
Peak Exotherm	260-300°F (127-149°C)
Non-Volatile Content, %	66.0-70.0
Hazardous Air Pollutant (Styrene) Content, %	25.0-29.0
Specific Gravity	0.96-1.20

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	6,750 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	1.5 %	1.5 %	1.24 %	1.24 %
Barcol Hardness, 934-1 gauge, ASTM D2583	35	35	48-52	48-52
Heat Distortion Temperature, ASTM D648	182 °F	83 °C	-- °F	-- °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.				
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.				

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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