



COR45-BA-131A

Vacuum Infusion Resin

Technical Data Sheet

COR45-BA-131A is a promoted, non-thixotropic, polyester resin blend. COR45-BA-131A is designed for the fabrication of parts using the vacuum infusion process (VIP).

FEATURES	BENEFITS
• Low Viscosity	• Rapid filling of parts
• Low Exotherm/Low Shrinkage	• Improved surface quality
• Excellent Fiberglass Wet-Out	• High laminate physical properties
• Good Resin Cure	• Improved resistance to post-cure

RELATED PRODUCTS	GEL TIME
COR45-BA-131W	10-15 Minutes (1.5% DDM-9)
COR45-BA-131A	20-25 Minutes (1.5% DDM-9)
COR45-BA-131C	33-39 Minutes (1.5% DDM-9)
COR45-BA-131D	45-53 Minutes (1.5% DDM-9)
COR45-BA-131F	75-85 Minutes (1.0% MCP)

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #2 Spindle @ 60 rpm, 77°F (25°C), cPs	100-140
100 grams resin @ 77°F (25°C), initiated with 1.5% DDM-9 by weight*	
Gel Time, min:sec	20:00-25:00
Gel to Peak Exotherm Time, min:sec	9:00-16:00
Peak Exotherm	300-340°F (148-171°C)
Non-Volatile Content, %	62.0-66.0
Hazardous Air Pollutant (Styrene) Content, %	< 33

TYPICAL PROPERTIES					
Thickness	1/8 inch (3.2 mm) Casting		1/8 inch (3.2 mm) Infusion Laminate		
Construction	Not Applicable		46.5% glass		
Flexural Strength, ASTM D790	16,000 psi	110 MPa	38,700 psi	2,669 MPa	
Flexural Modulus, ASTM D790	5.05 x 10 ⁵ psi	3,480 MPa	17.4 x 10 ⁵ psi	12,000 MPa	
Tensile Strength, ASTM D638	6,100 psi	42 MPa	32,700 psi	2,256 MPa	
Tensile Modulus, ASTM D638	5.27 x 10 ⁵ psi	3,640 MPa	21.3 x 10 ⁵ psi	14,690 MPa	
Tensile Elongation, ASTM D638	1.3 %	1.3 %	2.25 %	2.25 %	
Barcol Hardness, 934-1 gauge, ASTM D2583	40-42	40-42	59-65	59-65	
Heat Distortion Temperature, ASTM D648	185 °F	85 °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.					
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. Our technical sales representatives will assist in developing procedures to fit individual requirements, but all advice is accepted at your risk and should be checked for suitability to your particular processes. 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. Specifications and properties of standard production material may vary slightly from those in this report. Interplastic Corporation makes no warranties regarding any material and/or samples described in this report unless that representation is provided to your company in writing by a Technical Director of Interplastic Corporation or one of his or her managers.

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