



COR31-DA-470

Pultrusion Resin

Technical Data Sheet

COR31-DA-470 is a non-promoted, medium to high reactivity, unsaturated polyester resin.

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV #3 Spindle @ 12 rpm, 77°F (25°C), cPs	2,500-3,100
SPI Gel Time run in 180°F (82°C) water bath, initiated with 1.0 phr of 98% BPO *	
Gel Time, 150-190°F (66-88°C), min:sec	3:00-5:00
Gel to Peak Time, 190°F (88°C) to Peak Exotherm, min:sec	0:45-1:30
Peak Exotherm	415-455°F (213-232°C)
Non-Volatile Content, %	67.0-71.0
Styrene Content, %	29.0-33.0
Specific Gravity	1.11-1.15
Color, Gardner	3 max

TYPICAL PROPERTIES					
Thickness	1/8 inch (3.2 mm) Casting		1/8 inch (3.2 mm) Pultruded Profile		
Construction	Not Applicable		54% Glass		
Flexural Strength, ASTM D790	19,200 psi	132 MPa	110,000 psi	760 MPa	
Flexural Modulus, ASTM D790	5.9 x 10 ⁵ psi	4,100 MPa	3.6 x 10 ⁶ psi	25,000 MPa	
Tensile Strength, ASTM D638	11,000 psi	75 MPa	-- psi	-- MPa	
Tensile Modulus, ASTM D638	5.6 x 10 ⁵ psi	3,900 MPa	-- psi	-- MPa	
Tensile Elongation, ASTM D638	2.7 %	2.7 %	-- %	-- %	
Barcol Hardness, 934-1 gauge, ASTM D2583	40-44	40-44	--	--	
Heat Distortion Temperature, ASTM D648	217 °F	103 °C	-- °F	-- °C	
* Pultrusion line speed will vary due to the type and concentration of Free Radical Initiator (catalyst), die temperature, fillers, and other additives used. In order to meet your individual needs, consult our technical sales representative for assistance.					

Interplastic Corporation makes no warranties regarding any material and/or samples described in this report. All properties specified above are approximate and may vary from material delivered. Delivered material complies with the certificate of analysis on each shipment of product. Interplastic Corporation makes no representations of fact regarding the material except those specified above. Final determination of part or application and 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 as a customer accommodation, but all advice is accepted at your risk and should be checked for suitability to your particular processes and needs. 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.

Revised: 12/15

INTERPLASTIC CORPORATION
2015 Northeast Broadway Street
Minneapolis, Minnesota 55413-1775
651.481.6860 Fax 612.331.4235
www.interplastic.com