

# MATERIAL PROPERTIES

## Pultex® Fiber Reinforced Polymer Rods And Bars

1500 Series - Thermoset Polyester – Olive Green

1525 Series - Thermoset Polyester Class 1 FR – Slate Gray (Dark Gray)

1625 Series - Thermoset Vinyl Ester Class 1 FR – Beige

The following data was derived from ASTM coupon and full section testing. The results are average values based on random sampling and testing of production lots. Composite materials are not homogeneous; and therefore, the location of the coupon extraction can cause variances in the coupon test results. Creative Pultrusions publishes an average value of random samples from production lots.

Rod and Bar stock contain longitudinal reinforcements only.

<u>Property</u> (coupon values)	<u>ASTM</u> <u>Test</u>	<u>Units</u>	<u>Test Results</u>
<b>Mechanical</b>			
Tensile Strength (LW)	D638	psi	100,000
Tensile Modulus (LW)	D638	10 <sup>6</sup> psi	6.0
Compressive Strength (LW)	D695	psi	60,000
Flexural Strength (LW)	D790	psi	100,000
Flexural Modulus (LW)	D790	10 <sup>6</sup> psi	6.0
Notched Izod Impact (LW)	D256	ft-lb/in	40
<b>Physical</b>			
Barcol Hardness Units	D2583		50
Water Absorption	D570	% Max	.25
Density	D792	lbs/in <sup>3</sup>	0.073-0.076
Coefficient of Thermal Expansion (LW)	D696	10 <sup>-6</sup> in/in/°F	3.0

LW – lengthwise

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