

# MATERIAL PROPERTIES

## Pultex<sup>®</sup> Fiber Reinforced Polymer Rods And Bars Metric Version

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.

Property (coupon values)	ASTM Test	Units	Test Results
<b>Mechanical</b>			
Tensile Strength (LW)	D638	MPa	689.7
Tensile Modulus (LW)	D638	GPa	41.2
Compressive Strength (LW)	D695	MPa	413.8
Flexural Strength (LW)	D790	MPa	689.7
Flexural Modulus (LW)	D790	GPa	41.2
Notched Izod Impact (LW)	D256	J/m	2,135
<b>Physical</b>			
Barcol Hardness	D2583	-	50
Water Absorption	D570	% Max	0.25
Density	D792	Mg/m <sup>3</sup>	2.01-2.10
Coefficient of Thermal Expansion (LW)	D696	10 <sup>-6</sup> K <sup>-1</sup>	5.5

LW - lengthwise

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