



Lance Brown Import-Export

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 Fiberglass Materials: Minimum Price – Maximum Service

Typical Properties of FRP Pultruded Products

1 Physical Properties

Property	Unit	Direction	Type of pultruded products	
			Profiles	Rods & bars
Barcol Hardness			40	45
24hr water absorption	%		0.5	0.25
Specific gravity			1.72-1.98	1.8-2.1
Coefficient of thermal expansion	10-6C	LW	8.0	5.4
Thermal conductivity	W/m.K		0.28	
Dielectric strength	MV/m	LW	3.0	3.0
		PF	3.28	

2 Mechanical Properties

Property	Unit	Direction	Type of pultruded products	
			profiles	Rods & bars
Tensile Strength	Mpa	LW	206	690
		CW	48	
Tensile Modulus	GPa	LW	17	41.
		CW	5.5	
Flexural Strength	MPa	LW	200	690
		CW	65	
Flexural Modulus	GPa	LW	13	40
		CW	5.5	
Compressive Strength	Mpa	LW	200	400
		CW	100	
Compressive Modulus	GPa	LW	17	
		CW	6.5	
Shear Modulus	GPa	LW	2.5	
Shear Strength	MPa	LW	30	35

LW = Lengthwise

CW = Crosswise

PF = perpendicular to laminate face