



Summary Of Typical Properties

- Pektran PR-44 – Specialty Glass-fiber Reinforced Grade

	Properties	Units	Value	Test Method
Physical	Specific Gravity	g/cm3	1.58	ASTM D-792
	Water Absorption			
	24 hours	%	0.27%	ASTM D-570
	48 hours	%	n/a	ASTM D-570
Mechanical	Tensile Strength @ 75°F	psi	12,750	ASTM D-638
	Tensile Modulus	psi	800,000	ASTM D-638
	Tensile Elongation	%	1.5%	ASTM D-638
	Flexural Strength	psi	17,300	ASTM D-790
	Flexural Modulus	psi	1,200,000	ASTM D-790
	Izod Impact Strength	ft-lbs/in	0.60	ASTM D-256A
	Compressive Strength	psi	26,000	ASTM D-695
	Hardness Shore D		94	ASTM-D-785
Rockwell R		105	ASTM-D-785	
Thermal	Temperature of Deflection	°F	500	ASTM D-648A
	Coefficient of Linear Expansion	in/in/°F	1.6x10 ⁻⁵	ASTM C- 518
	Continuous Use Temperature	°F	490	ASTM D-696
Electrical	Dielectric Strength Short Term	V/mil	400	ASTM D-149
	Dissipation Factor	10 ⁻⁶ Hz	0.002	ASTM D-150
	Dielectric Constant	10 ⁻⁶ Hz	3.8	ASTM D-150
	Surface Resistivity	ohm ²	10 ¹³	EOS/ESD S11.11

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