



**Summary Of Typical Properties**

**- Pektran PR-32 – 30% Glass-fiber Reinforced PEEK**

	Properties	Units	Value	Test Method
<b>Physical</b>	Specific Gravity	g/cm3	1.56	ASTM D-792
	Water Absorption			
	24 hours	%	0.23%	ASTM D-570
	48 hours	%	n/a	ASTM D-570
<b>Mechanical</b>	Tensile Strength @ 75°F	psi	12,300	ASTM D-638
	Tensile Modulus	psi	500,000	ASTM D-638
	Tensile Elongation	%	2.2%	ASTM D-638
	Flexural Strength	psi	20,300	ASTM D-790
	Flexural Modulus	psi	1,000,000	ASTM D-790
	Izod Impact Strength	ft-lbs/in	0.80	ASTM D-256A
	Compressive Strength	psi	20,100	ASTM D-695
	Hardness Shore D		91	ASTM-D-785
	Rockwell R		102	ASTM-D-785
<b>Thermal</b>	Temperature of Deflection	°F	490	ASTM D-648A
	Coefficient of Linear Expansion	in/in/°F	1.7x10 <sup>-5</sup>	ASTM C- 518
	Continuous Use Temperature	°F	500	ASTM D-696
<b>Electrical</b>	Dielectric Strength Short Term	V/mil	437	ASTM D-149
	Dissipation Factor	10 <sup>-6</sup> Hz	0.002	ASTM D-150
	Dielectric Constant	10 <sup>-6</sup> Hz	3.8	ASTM D-150
	Surface Resistivity	ohm <sup>2</sup>	10 <sup>13</sup>	EOS/ESD S11.11

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