



**Summary Of Typical Properties**

**- Pektran PR-43 - 30% Carbon-fiber Reinforced PEEK**

	Properties	Units	Value	Test Method
<b>Physical</b>	Specific Gravity	g/cm3	1.43	ASTM D-792
	Water Absorption			
	24 hours	%	0.13%	ASTM D-570
	48 hours	%	n/a	ASTM D-570
<b>Mechanical</b>	Tensile Strength @ 75°F	psi	17,850	ASTM D-638
	Tensile Modulus	psi	850,000	ASTM D-638
	Tensile Elongation	%	2.1%	ASTM D-638
	Flexural Strength	psi	31,000	ASTM D-790
	Flexural Modulus	psi	1,300,000	ASTM D-790
	Izod Impact Strength	ft-lbs/in	1.00	ASTM D-256A
	Compressive Strength	psi	24,800	ASTM D-695
	Hardness Shore D		94	ASTM-D-785
Rockwell R		102	ASTM-D-785	
<b>Thermal</b>	Temperature of Deflection	°F	575	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	Conductive	ASTM D-149
	Dissipation Factor	10 <sup>-6</sup> Hz	n/a	ASTM D-150
	Dielectric Constant z	10 <sup>-6</sup> Hz	n/a	ASTM D-150
	Surface Resistivity	ohm <sup>2</sup>	10 <sup>5</sup>	EOS/ESD S11.11

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Symmtek Polymers LLC  
 123 Gantry Lane  
 Calera, OK 74730  
 (303) 670-8820