



Summary Of Typical Properties

- SM-35-C – PTFE/PPS Alloy, Carbon-Fiber Reinforced

	Properties	Units	Value	Test Method
Physical	Specific Gravity	g/cm3	2.28	ASTM D-792
	Water Absorption			
	24 hours	%	0.001	ASTM D-570
	48 hours	%	0.001	ASTM D-570
Mechanical	Tensile Strength @ 75°F	psi	1,750	ASTM D-638
	Tensile Modulus	psi	900,000	ASTM D-638
	Tensile Elongation	%	3.5%	ASTM D-638
	Flexural Strength	psi	3,700	ASTM D-790
	Flexural Modulus	psi	190,000	ASTM D-790
	Izod Impact Strength	ft-lbs/in	1.4	ASTM D-256A
	Compressive Strength	psi	7,300	ASTM D-695
	Hardness Shore D		73	ASTM-D-785
Thermal	Temperature of Deflection	°F	340	ASTM D-648A
	Coefficient of Linear Expansion	in/in/°F	3.4x10 ⁻⁵	ASTM C- 518
	Continuous Use Temperature	°F	500	ASTM D-696
Electrical	Dielectric Strength Short Term	V/mil	N/A	ASTM D-149
	Dissipation Factor	10 ⁶ Hz	N/A	ASTM D-150
	Dielectric Constant	10 ⁶ Hz	N/A	ASTM D-150

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