

Compound Properties

Resin	Fiber	CF:10 wt%			CF:30 wt%		
		Electrical Volume Resistivity (Ω cm)	Flexural Strength/ Modulus (MPa/GPa)	Izod Impact w/ Notch / w/o Notch (kJ/m ²)	Electrical Volume Resistivity (Ω cm)	Flexural Strength/ Modulus (MPa/GPa)	Izod Impact w/ Notch / w/o Notch (kJ/m ²)
PC	TV14	1.9 x10 ⁵	200 / 6.7	14 / 67	1.4x10 ²	290 / 17	13 / 69
	TV31	1.1 x10 ²	150 / 6.5	9 / 33	—	—	—
ABS	TV14	1.5 x10 ¹	120 / 7.5	5 / 18	—	—	—
	TV31	7.1 x10 ¹	100 / 7.4	5 / 14	—	—	—

Relative values (Company A = 100)

Resin (Wf)	Fiber	Electrical Surface Resistivity (Ω /sq)	Tensile Strength (MPa)	Flexural Strength/ Modulus (MPa/GPa)	Izod Impact w Notch (kJ/m ²)
PC (CF:20%)	TV14	E6	125	127 / 107	149
	TV31	E5	88	92 / 108	103
	Company A	E6	100	100 / 100	100
	Company B	E6	108	110 / 108	108

TV14 exhibits higher mechanical performance comparing to other fibers.
TV31 exhibits higher conductivity comparing to other fibers.