



**Carbon/Carbon Composite
Grades
Typical Physical Properties**

Material Grade			CCP-147-12	CCP-157-12	CCP-158-12	CCP-257-6	CCP-258-12	CCP-160-HW
Density	g/cm3		1.47	1.55	1.50	1.57	1.55	1.63
Flexural Strength	psi	⊥	18,130	21,755	20,305	26,832	23,206	26,107
	MPa		125	150	140	185	160	180
Flexural Modulus	ksi	⊥	5,801	7,252	6,527	9,428	7,252	6,527
	GPa		40	50	45	65	50	45
Interlaminar Shear Strength	psi		1,310	1,310	1,160	1,310	1,160	2,031
	MPa		9	9	8	9	8	14
Compressive Strength	psi	//	14,504	19,580	14,504	19,870	14,504	11,300
	MPa		100	135	100	137	100	115
Thermal Conductivity	W/mK	//	31	32	31	33	31	34
	W/mK		⊥	6	7	6	7	6
CTE (20 – 1,000°C)	x10 ⁻⁶ /K	//	0.5	0.5	0.5	0.5	0.5	0.9
	x10 ⁻⁶ /K		⊥	7	7	7	7	7
Electrical Resistivity (25°C)	μΩm	//	34	31	35	30	35	N/A

Notes:

1) // Parallel to Fiber Axis, ⊥ Perpendicular to Fiber Axis.

12 Jytek Park, Leominster, MA 01453, USA

www.CarbonCompositesInc.com

Phone: 1-978-840-0707

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