



Bar							
Dia	Nominal Dia.	Nominal CSA	Linear Weight	Grade: 45P (MoE*: 45 GPa) (Straight Portion) (ASTM D7205)			
				Material		Mechanical Properties	
				Fiber	Resin	Minimum Tensile Strength (Straight portion) (ASTM D7205)	Minimum Tensile Strength (Bent portion) (ASTM D7914)
mm	mm	mm <sup>2</sup>	kg/m	-	-	MPa	MPa
10	9.5	71	0.155	ECR	VE	900	405
13	12.7	127	0.258	ECR	VE	900	405
16	15.9	199	0.407	ECR	VE	880	395
19	19.1	284	0.581	ECR	VE	850	380
22	22.2	387	0.778	ECR	VE	820	370
25	25.4	510	1.016	ECR	VE	790	355

  

Dia	Nominal Dia.	Nominal CSA	Linear Weight	Grade: 50P (MoE*: 50 GPa) (Straight Portion) (ASTM D7205)			
				Material		Mechanical Properties	
				Fiber	Resin	Minimum Tensile Strength (Straight portion) (ASTM D7205)	Minimum Tensile Strength (Bent portion) (ASTM D7914)
mm	mm	mm <sup>2</sup>	kg/m	-	-	MPa	MPa
10	9.5	71	0.158	ECR + H	VE	910	410
13	12.7	127	0.267	ECR + H	VE	900	405
16	15.9	199	0.418	ECR + H	VE	890	400
19	19.1	284	0.600	ECR + H	VE	880	395
22	22.2	387	0.816	ECR + H	VE	860	385
25	25.4	510	1.045	ECR + H	VE	840	380

  

Outside Dia.	Root Dia.	Nominal CSA	Linear Weight	Grade: 60P (MoE*: 60 GPa) (Straight Portion) (ASTM D7205)			
				Material		Mechanical Properties	
				Fiber	Resin	Minimum Tensile Strength (Straight portion) (ASTM D7205)	Minimum Tensile Strength (Bent portion) (ASTM D7914)
mm	mm	mm <sup>2</sup>	kg/m	-	-	MPa	MPa
9.5	8.81	61	0.158	ECR + H	VE	1,067	480
12.7	11.68	107	0.267	ECR + H	VE	1,063	475
15.9	14.63	168	0.418	ECR + H	VE	1,053	475
19.1	17.61	244	0.600	ECR + H	VE	1,026	460
22.2	20.54	331	0.816	ECR + H	VE	1,005	450
25.4	23.37	429	1.045	ECR + H	VE	998	450

\*MoE = Modulus of Elasticity