

Sample	MPP (wt%)	Epoxy (wt%)	GF (wt%)	Flexural		Tensile		Impact Strength (kJ/m ²)
				Modulus (GPa)	Strength (MPa)	Modulus (GPa)	Strength (MPa)	
PP	0	0	0	2.09 ± 0.04	46.70 ± 0.80	1.21 ± 0.05	26.10 ± 1.60	6.86 ± 0.41
	5	0	0	1.98 ± 0.09	46.30 ± 1.24	1.53 ± 0.03	28.40 ± 0.18	7.00 ± 0.26
Example 1	5	5	10	3.17 ± 0.06	64.72 ± 1.57	2.12 ± 0.06	34.86 ± 0.59	4.8 ± 0.05
	5	5	20	4.08 ± 0.12	78.29 ± 1.43	2.92 ± 0.09	42.28 ± 0.72	6.1 ± 0.4
Comparative 1	5	5	10	3.25 ± 0.10	71.74 ± 0.44	2.29 ± 0.10	38.77 ± 1.85	6.6 ± 2.8
	5	5	20	4.50 ± 0.11	88.90 ± 0.32	3.43 ± 0.09	50.91 ± 1.44	7.7 ± 0.2

FIG. 1

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FIG. 2A

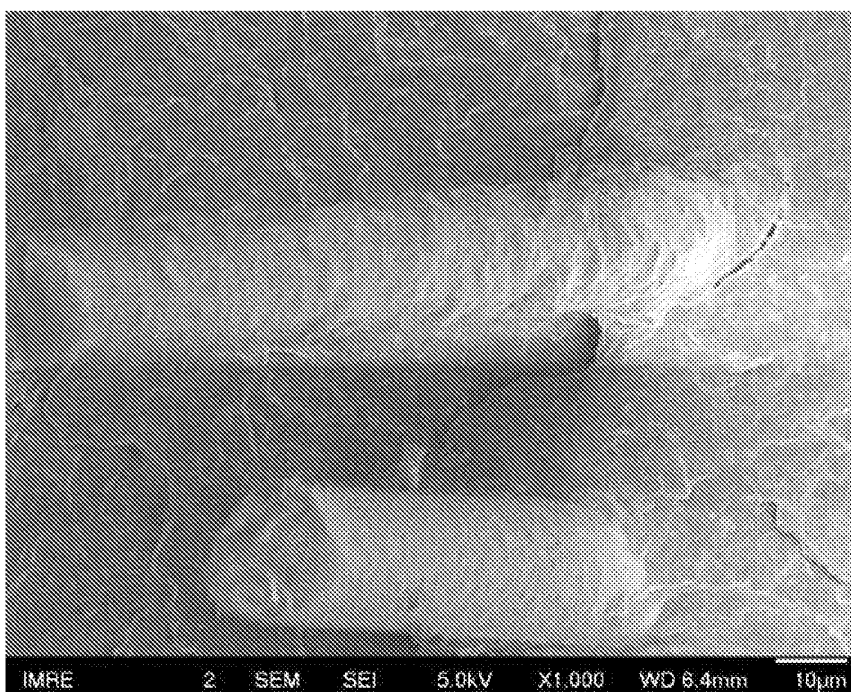


FIG. 2B

Sample	MPP (wt%)	Epoxy (wt%)	GF (wt%)	Flexural		Tensile		Impact Strength (kJ/m ²)
				Modulus (GPa)	Strength (MPa)	Modulus (GPa)	Strength (MPa)	
PP	0	0	0	2.09 ± 0.04	46.70 ± 0.80	1.21 ± 0.05	26.10 ± 1.60	6.86 ± 0.41
	5	0	0	1.98 ± 0.09	46.30 ± 1.24	1.53 ± 0.03	28.40 ± 0.18	7.00 ± 0.26
Example 1								
0 Week	5	5	10	3.17 ± 0.06	64.72 ± 1.57	2.12 ± 0.06	34.86 ± 0.59	4.8 ± 0.05
	5	5	20	4.08 ± 0.12	78.29 ± 1.43	2.92 ± 0.09	42.28 ± 0.72	6.1 ± 0.4
1 Week	5	5	10	3.07 ± 0.01	67.66 ± 0.50	2.26 ± 0.02	34.43 ± 0.18	5.2 ± 0.6
	5	5	20	4.02 ± 0.03	82.77 ± 1.24	3.08 ± 0.04	45.34 ± 0.48	6.3 ± 0.05
2 Weeks	5	5	10	2.97 ± 0.05	62.35 ± 0.43	2.03 ± 0.04	32.49 ± 0.61	4.6 ± 0.6
	5	5	20	3.84 ± 0.19	75.63 ± 2.66	2.95 ± 0.04	40.59 ± 0.41	5.1 ± 0.2
3 Weeks	5	5	10	2.92 ± 0.17	62.43 ± 3.12	2.30 ± 0.03	35.02 ± 0.50	4.7 ± 0.3
	5	5	20	4.10 ± 0.04	83.78 ± 2.16	3.22 ± 0.08	44.64 ± 0.33	5.9 ± 0.4
4 Weeks	5	5	10	2.92 ± 0.08	64.34 ± 1.66	2.28 ± 0.03	35.18 ± 0.64	5.0 ± 0.2
	5	5	20	3.79 ± 0.17	79.86 ± 1.16	3.23 ± 0.02	46.76 ± 0.15	6.5 ± 0.07
8 Weeks	5	5	10	2.79 ± 0.06	60.32 ± 0.97	2.01 ± 0.06	32.61 ± 0.28	5.5 ± 0.5
	5	5	20	3.81 ± 0.02	77.31 ± 0.82	2.88 ± 0.21	42.50 ± 0.42	6.1 ± 0.5
Comparative 1	5	5	10	3.25 ± 0.10	71.74 ± 0.44	2.29 ± 0.10	38.77 ± 1.85	6.6 ± 2.8
	5	5	20	4.50 ± 0.11	88.90 ± 0.32	3.43 ± 0.09	50.91 ± 1.44	7.7 ± 0.2

FIG. 3

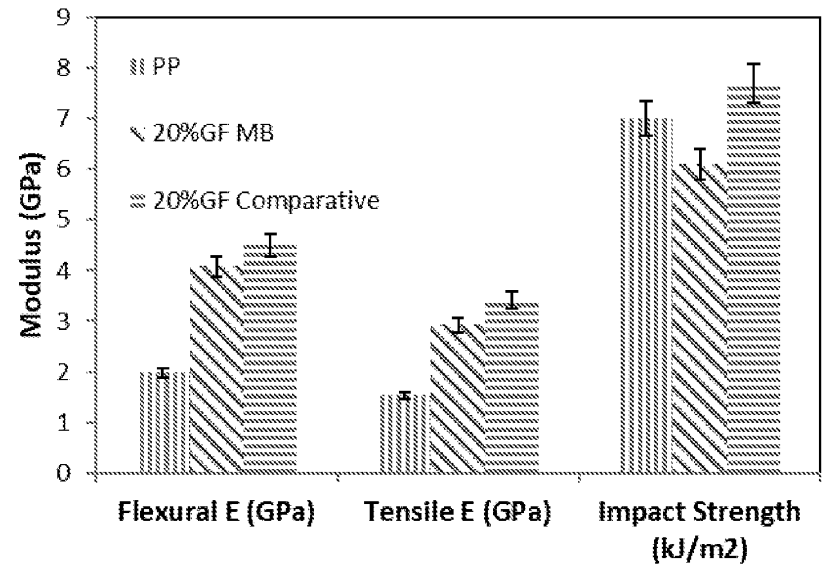


FIG. 4A

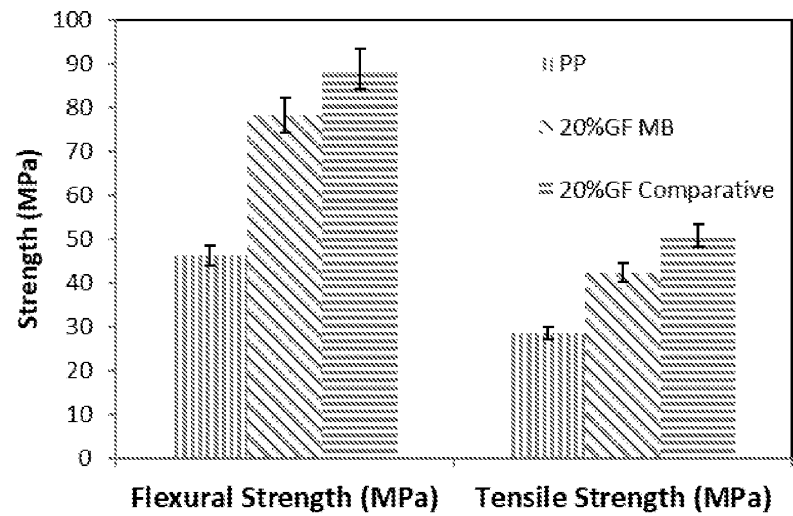


FIG. 4B

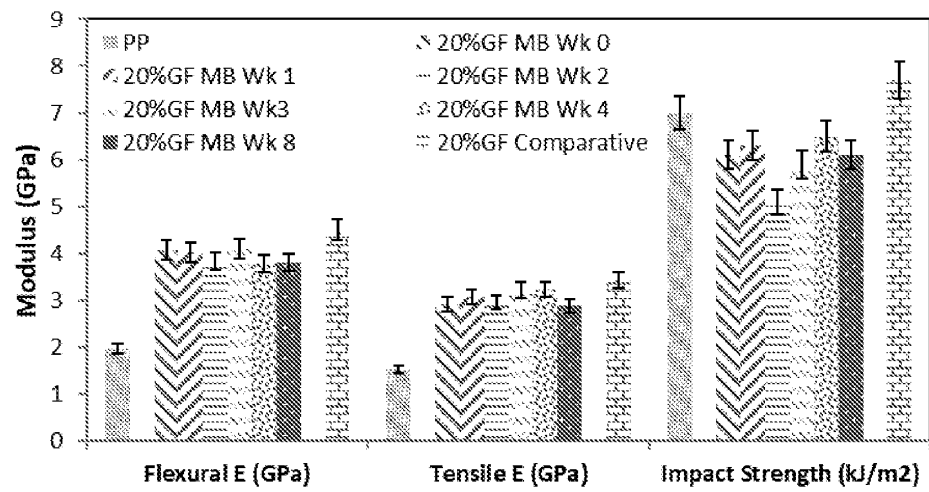


FIG. 5A

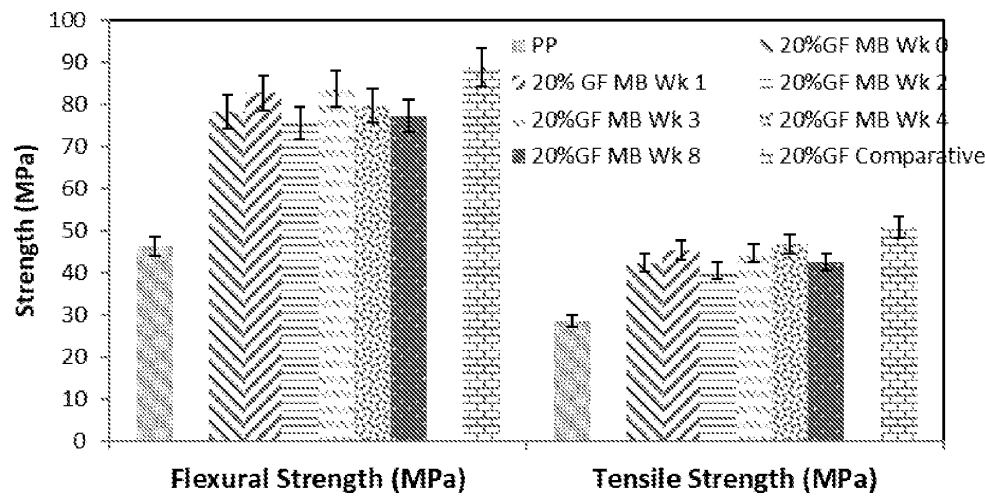


FIG. 5B