

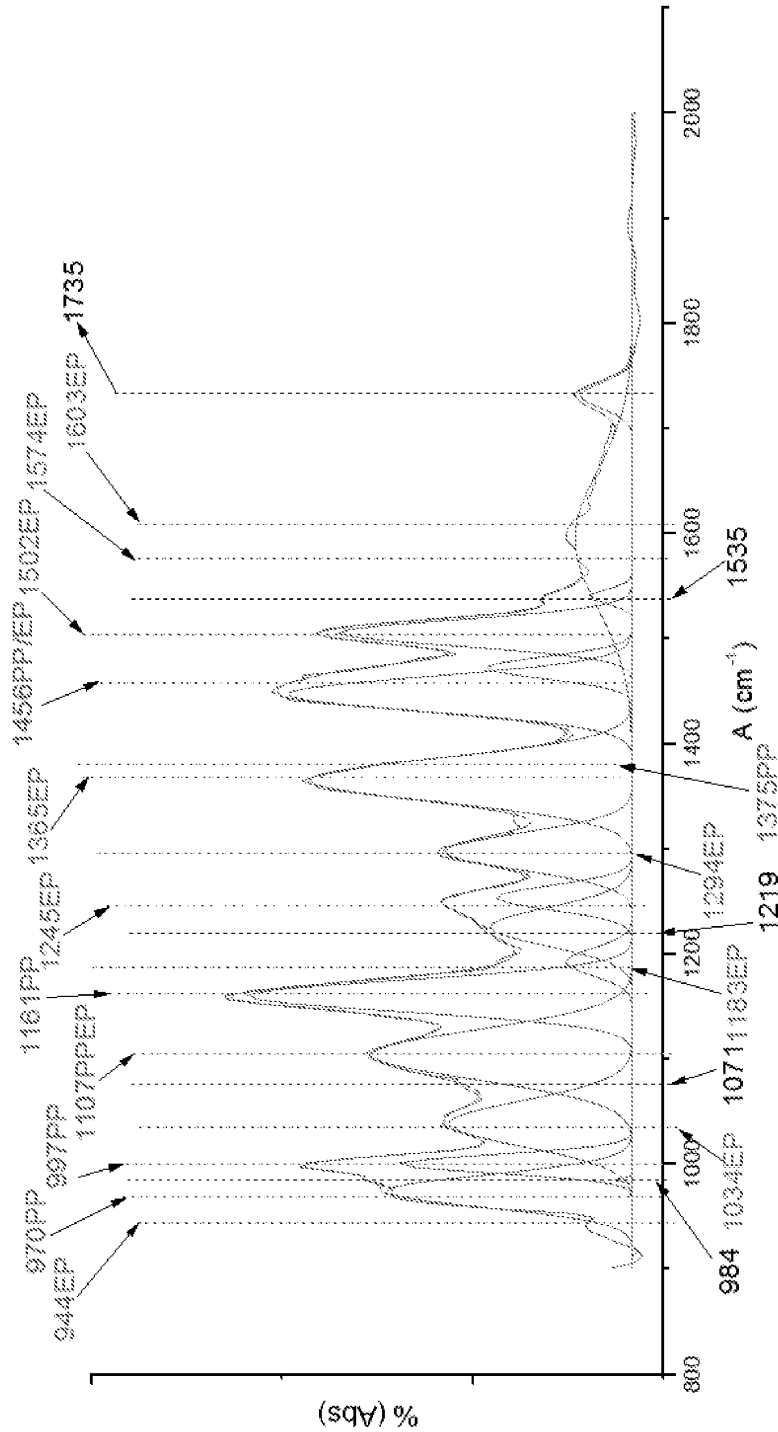


FIG. 1

Sample	MPP (wt%)	Epoxy (wt%)	GF (wt%)	Clay (wt%)	Flexural		Tensile		Impact Strength (kJ/m ²)
					Modulus (GPa)	Strength (MPa)	Modulus (GPa)	Strength (MPa)	
PP	0	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	0	1.98 ± 0.09	46.30 ± 1.24	1.53 ± 0.03	28.40 ± 0.18	7.00 ± 0.26
	10	0	0	0	2.13 ± 0.06	50.92 ± 0.46	1.20 ± 0.12	25.45 ± 0.60	6.79 ± 0.31
Example 1a	5	5	20	0	4.32 ± 0.12	82.00 ± 1.70	3.55 ± 0.03	47.80 ± 0.40	5.68 ± 0.12
Example 1b	5	10	20	0	4.20 ± 0.11	83.60 ± 1.20	3.56 ± 0.01	48.50 ± 0.60	5.56 ± 0.17
Example 1c	10	5	20	0	3.46 ± 0.03	79.29 ± 1.34	3.27 ± 0.10	48.22 ± 0.51	6.44 ± 0.22
Example 1d	10	10	20	0	4.22 ± 0.18	87.30 ± 3.00	3.81 ± 0.03	51.50 ± 0.20	6.42 ± 0.40
Example 2a	5	5	0	5	2.48 ± 0.07	55.37 ± 0.48	1.41 ± 0.04	27.00 ± 0.19	5.18 ± 0.23
Example 2b	5	10	0	5	2.27 ± 0.04	52.02 ± 0.53	1.40 ± 0.06	25.02 ± 0.27	3.51 ± 0.25
Example 2c	10	5	0	5	2.37 ± 0.04	51.86 ± 0.49	1.46 ± 0.01	26.08 ± 0.05	4.91 ± 0.20
Example 2d	10	10	0	5	2.33 ± 0.07	58.84 ± 0.62	1.51 ± 0.04	30.04 ± 0.14	4.95 ± 0.19
Example 3	10	10	30	0	6.50 ± 0.12	126.96 ± 0.55	5.79 ± 0.06	77.77 ± 1.05	8.76 ± 0.53
Comparative 1a	5	0	20	0	3.99 ± 0.07	72.30 ± 0.60	2.88 ± 0.07	40.90 ± 0.10	6.29 ± 0.51
Comparative 1b	0	5	20	0	3.07 ± 0.04	68.13 ± 0.34	2.95 ± 0.11	38.62 ± 0.59	4.56 ± 0.12
Comparative 2a	5	0	0	5	2.17 ± 0.09	49.37 ± 1.44	1.32 ± 0.06	24.75 ± 0.61	4.19 ± 0.34
Comparative 2b	0	5	0	5	2.12 ± 0.03	48.78 ± 0.41	1.31 ± 0.05	24.07 ± 0.18	4.84 ± 0.25

FIG. 2

3/4

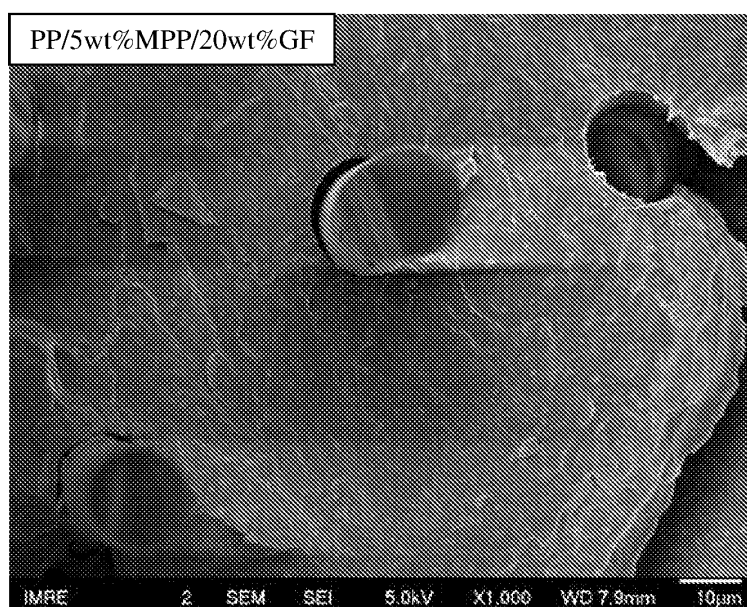


FIG. 3A

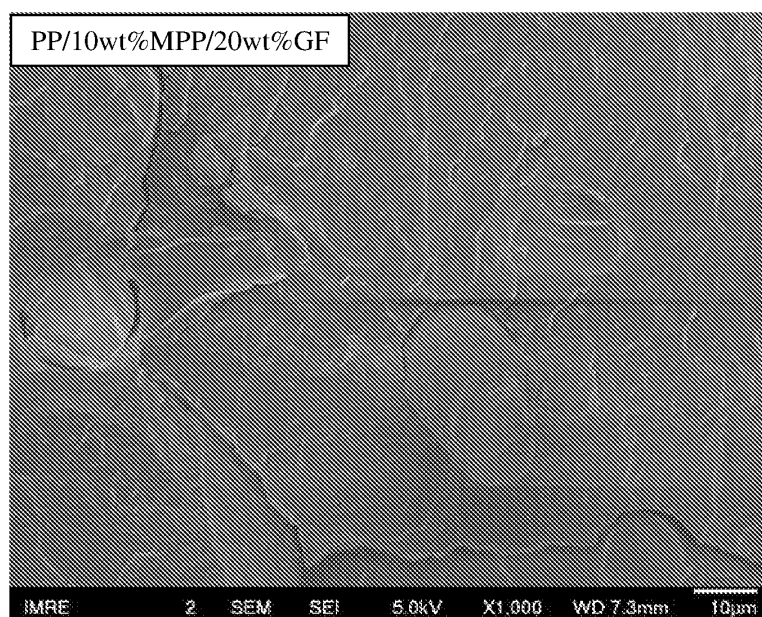


FIG. 3B

4/4

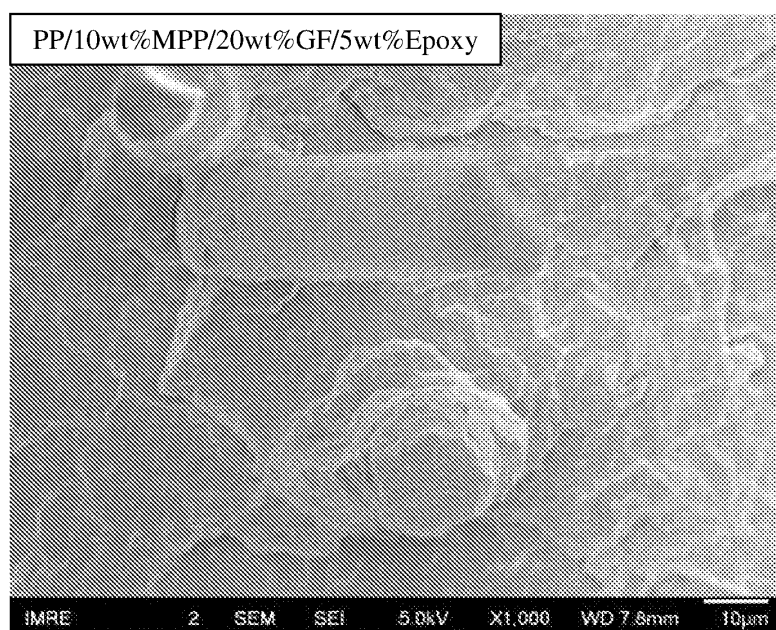


FIG. 3C

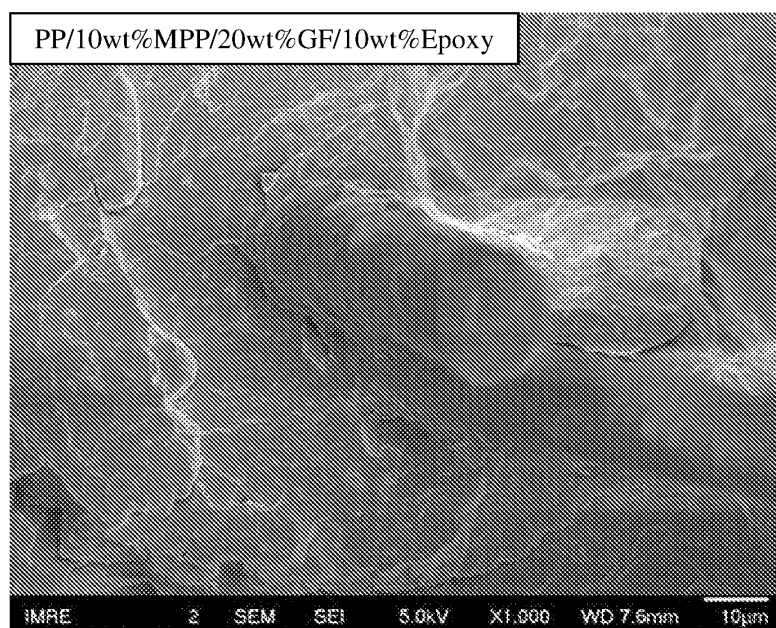


FIG. 3D