

Table 1: Methods and Materials

Group	Material	Method	No. of Samples
Control	Normal acrylic resin	Conventional water bath technique	10
Group A1	Acrylic resin with 0.10 g GO	Conventional water bath technique	10
Group A2	Acrylic resin with 0.20 g GO	Conventional water bath technique	10
Group A3	Acrylic resin with 0.30 g GO	Conventional water bath technique	10
Group B1	Acrylic resin with 0.10 g RGO	Conventional water bath technique	10
Group B2	Acrylic resin with 0.20 g RGO	Conventional water bath technique	10
Group B3	Acrylic resin with 0.30 g RGO	Conventional water bath technique	10

Table 2: Flexural Strength and Flexural Load of Different Groups

Group	Concentration (g)	Flexural Strength (MPa)	Flexural Load (N)
Control	0.00	80.0	300
A1	0.10 GO	85.5	320
A2	0.20 GO	90.3	340
A3	0.30 GO	95.8	360
B1	0.10 RGO	88.7	330
B2	0.20 RGO	94.5	355
B3	0.30 RGO	100.2	375

Table 3: Mean and Standard Deviation of Flexural Strength for Each Group

Group	Concentration (g)	Mean Flexural Strength (MPa)	Standard Deviation (MPa)
Control	0.00	80.0	2.5
A1	0.10 GO	85.5	2.3
A2	0.20 GO	90.3	2.1
A3	0.30 GO	95.8	1.9
B1	0.10 RGO	88.7	2.2
B2	0.20 RGO	94.5	1.8
B3	0.30 RGO	100.2	1.5

Legend: GO - Graphene Oxide; RGO - Reduced Graphene Oxide

Graph 1: Flexural strength of Groups



