CLAIMS:

1. A method for manufacturing polymeric material article, the method comprising:

providing polymeric resin,

providing selected amount of two or more types of filler materials within said polymeric resin,

mixing said two or more filler materials into the polymeric resin to provide a polymeric filler mixture,

mixing a hardening material into said polymeric filler mixture,

compressing said polymeric filler mixture under pressure in the range between 20 and 350 bar, and

curing said polymeric filler mixture to provide stable polymeric material;

wherein said two or more types of filler material being selected from: graphite flakes, graphene platelets, and Boron-Nitride particles, and

wherein said selected amount of said two or more types of filler material is at least 25wt% with respect to the polymeric resin matrix.

2. The method of claim 1, wherein said hardening material comprises polyether amine.

3. The method of claim 1 or 2, wherein said hardening material comprises crosslinking material.

4. The method of any one of claims 1 to 3, further comprising placing the said polymeric filler mixture in low pressure condition for removing air voids prior to compressing the said polymeric filler mixture.

5. The method of any one of claims 1 to 4, wherein said two or more types of filler materials comprise graphene platelets having average lateral dimension in the range 1-25 micrometer.

6. The method of any one of claims 1 to 5, wherein said two or more types of filler materials comprise graphite flakes having average lateral dimension in the range 20-250 micrometer.

7. The method of any one of claims 1 to 6, wherein said selected amount of said two or more types of filler material is in a range between 55wt% and 80wt% with respect to the polymeric resin matrix.

8. The method of any one of claims 1 to 7, providing thermosetting polymeric element having thermal conductivity exceeding 13 W/mK.

9. The method of any one of claims 1 to 8, providing polymeric element having thermal conductivity in the range of 13-30 W/mK.

10. The method of any one of claims 1 to 7, providing thermosetting polymeric element having thermal conductivity exceeding 16 W/mK.