Claims

1. A thermal interface material comprising:
at least one polymer including a hydrogenated polybutadiene mono-ol;
at least one phase change material including at least one wax;
a first thermally conductive filler in the form of aluminium particles having a first particle size between 1 and 15 microns;
a second thermally conductive filler in the form of aluminium particles having a second particle size between 1 and 5 microns wherein the first particle size is larger than the second particle size;
a third thermally conductive filler in the form of zinc oxide particles having a third particle size between 0.5 and 1 micron;
at least one titanate coupling agent; and
all thermally conductive fillers being present in a total amount of between 90 wt.% and 99 wt. % based on the total weight of the thermal interface material.

2. The thermal interface material of claim 1, wherein the thermal interface material has a bond line thickness (BLT) between 5 and 80 microns when subjected to a pressure of 40 psi and heated to 80ºC.