CLAIMS

1. A method of forming a polishing pad, comprising:

depositing a plurality of layers with a printer to reach a target thickness, wherein depositing the plurality of layers comprises:

depositing a first material over one or more first regions of a surface; and

depositing a second material over one or more second regions of the surface, wherein the one or more first regions and the one or more second regions form a continuous part of each of the plurality of layers, and wherein the first material and the second material are different; and

solidifying the plurality of composite layers to form a composite pad body having one or more first features comprising the first material and one or more second features comprising the second material, wherein the one or more first features and the one or more second features form a unitary body, wherein the one or more first features protrude from the one or more second features, and a surface of each of the one or more first features forms a polishing surface of the polishing pad.

2. The method of claim 1, wherein the first material comprises a first composition of materials that is formed by depositing droplets of a third material and a fourth material.

3. The method of claim 2, wherein the second material comprises a second composition of materials that is formed by depositing droplets of a fifth material and a sixth material.

4. The method of claim 1, wherein the first material comprises one or more thermoplastic polymers.

5. The method of claim 4, wherein the one or more thermoplastic polymers comprises polyurethane, polypropylene, polystyrene, polyacrylonitrile, polymethyle methacrylate, polychlorotrifluoroethylene, polytetrafluoroethylene, polyoxymethylene, polycarbonate,

polyimide, polyetheretherketone, polyphenylene sulfide, polyether sulfone, acrylonitrile butadiene styrene (ABS), polyetherimide, polyamides, melamines, polyesters, polysulfones, polyvinyl acetates, fluorinated hydrocarbons, and acrylate, copolymers, grafts, and mixtures thereof.