WHAT IS CLAIMED IS:

1. The process of making a starch-based resin from a starch-based plant feed stock, comprising:

growing, harvesting, and peeling the starch-based plant feed stock;

grinding, washing, and extracting the starch content from the peeled feed stock;

drying the starch content by substantially removing the water content from the starch content to form a dried starch;

polymerizing the dried starch in a reactor;

further polymerizing the dried starch in a reactor with a catalytic material, a petroleum-based plastic resin, a quantity of glycerol, and an oil which is high in free hydrogen, and;

partially cross-linking the polymerized dried starch with the petroleum-based plastic resin to form the starch-based resin.

2. The process of claim 1 wherein:

the starch content is extracted from the peeled feed stock by pressurization.

3. The process of claim 1 wherein:

the catalytic material is in the maleic anhydride family.

4. The process of claim 1 wherein:

the petroleum-based plastic resin is polyethylene.

5. The process of claim 1 wherein:

the oil is farm-grown non-GMO.

6. The process of claim 1 wherein:

the starch-based plant feed stock is selected from an Amylopectin-rich Tapioca, Sago, or other related biologic plant.

7. The process of claim 1 wherein:

the starch-based plant feed stock is non-GMO.

8. An article manufactured from a starch-based resin from an Amylopectin-rich non-GMO plant feed stock, comprising:

growing, harvesting, and peeling the Amylopectin-rich, non GMO plant feed stock;

grinding, washing, and extracting the starch content from the feed stock;

drying the starch by substantially removing the water content from the starch content to form a mass of dried starch;

polymerizing the dried starch in a reactor a first time;

polymerizing the dried starch in a reactor a second time with a catalytic material, a petroleum-based plastic resin, a quantity of glycerol, and an oil which is high in free hydrogen;

partially cross-linking the twice polymerized dried starch with the petroleum-based plastic resin; and

manufacturing an article using the cross-linked starch.

9. The article in claim 8 wherein:

the article is manufactured in any one or more methods including: injection molding, vacuum-forming, blow molding, compression molding, and extrusion.

10. The article in claim 8 wherein:

the article is made from a film, the film produced on essentially the same extruder used to manufacture comparable petroleum-based film, wherein the extrusion temperature to manufacture or convert the film is substantially the same or less.

11. The article in claim 8 wherein:

the article is degradable when disposed.