



(72) Unknown

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(54) **THERMOPLASTIQUE POUR FORMES DESSINEES FABRIQUE
D'UN MELANGE DE POLYPROPYLENE/POLYETHYLENE
RECYCLE/COMPOSES INCONNUS ET LES METHODES
AFFERENTES A CEUX-CI**

(54) **THERMOPLASTIC FOR DRAWN SHAPES MADE OF
REGENERATED POLYPROPYLENE/POLYETHYLENE
BLENDS/UNKNOWN COMPOUNDS AND THE METHODS
THEREFROM**

(57) A thermal plastic combination compound consisting of regenerated polypropylene and polyethylene blends with mixtures of unknown, unidentified compounds that create an unexpected unobvious result of a said thermal plastic that can be drawn into shapes and the methods for producing the said thermal plastic are disclosed.

ABSTRACT

ABSTRACT: A thermal plastic combination compound consisting of regenerated polypropylene and polyethylene blends with mixtures of unknown, unidentified compounds that create an unexpected unobvious result of a said thermal plastic that can be drawn into shapes and the methods for producing the said thermal plastic are disclosed.

SPECIFICATION**Page 1**

SPECIFICATION: A method for producing a thermoplastic of a compound mixture of regenerated polypropylene and polyethylene blends with mixtures of unknown unidentified compounds that have caused a result that is not the sum of the known characteristics of the elements or steps, therefore the elements or steps cooperate in an unexpected manner or cooperate in a known way to give an unobvious result.

The said thermoplastic is made of recycled materials of low density Polyethylene, Polypropylene, containing 7.8% of unidentified compounds, blended with Polyethylene to a 50% by 50% mix of the two plastics, to this is added, ultra violet stabilizers, pellets of colourant, and foaming agents. The analysis of the said thermoplastic resins in the said mix are set out in the attached report by 'Ortech'.

It is then processed in a 3.5 inch "Prodex machine" general screw plastic extruder. There are 6 heating stations involved in this process. The heat settings for each station are as follows:

First barrel zone at the throat of extruder	320 degrees Fahrenheit	160 degrees Centigrade
Second barrel zone	325 " "	163 " "
Third barrel zone	325 " "	163 " "
Fourth barrel zone (last in the extruder)	315 " "	157 " "
First die zone station at the gate	325 " "	163 " "
Second die zone station at the land	310 " "	153 " "

The said thermoplastic mix now extrudes from the machine and enters a specially designed suction chamber that is water fed at 50 degrees Fahrenheit 10 degrees Centigrade and then enters a series of sizing dies in the cooling tank to an unexpected unobvious resulting thermoplastic form.

The said thermoplastic overcomes known materials at the time of the invention that turn to a viscous liquid when heated as set out in the said method. The addition of the said unknown material causes the thermoplastic to remain in a plastic stage when heated as

said. The known materials in the said mix are expected by experts in the field to cause the said material to congeal and solidify to a non-fluid in the said Prodex extruder. The said method creates an unexpected new product that can be drawn as said of which is wood like in texture, flexible to bends of 180 degrees, very resistant to abrasion, cracking, splitting, in that it can be nailed, screw drilled, sawed like wood, and allows paint to adhere to the surface unlike known plastics where paint readily peels when subjected to bends, or a hammer blow when being nailed.

CLAIMS**Page1**

The embodiments of the invention in which an exclusive property or privilege is claimed are as follows:

- 1- The method of producing a combination thermoplastic to which the union of elements or process steps cooperating to produce a unitary and practical result that is not the sum of the known characteristics of the elements or steps, that cooperate in an unexpected manner or cooperate in a known way to give an unobvious resulting wood like material that paint will adhere or bond, can be bent 180 degrees after forming without cracking splitting crazing or changing the surface appearance, can be nailed without splitting or changing shape, that can be drawn in a continuous flow of the said thermoplastic to shapes namely base board, floor planks, lattice, window and door frames, and other shapes that a person skilled in the art would derive from this disclosure and teaching.
2. The process of claim 1, in which said resulting stabilized thermoplastic derived from the disclosure and having components as shown in the "Ortech" attached report number 98-J21-1422-1.
3. The process of claim1, in which the catalyst contains regenerated materials of polypropylene and polyethylene blends containing 7.8% of unidentified compounds namely as shown in the said "Ortech" report blended to a 50% by 50% mix of the two said plastics. A person skilled in the art would derive from this teaching other blends that result in a said stabilized thermoplastic that would infringe on these claims.
4. The process of claim I, in which the catalyst contains at least one of ultraviolet stabilizers, pellets of colourant and foaming agents, lubricants, nucleates, unknown metals, unknown oxidants,
5. The process of claims 1, to 4, in which the mix thereof in combination with the method of process in a 3.5 "Prodex machine" general screw plastic extruder of which

there are 6 heating stations consisting of 4 barrel zones and 2 die zones in the said Prodex machine namely ;

First barrel zone at the throat of the extruder 320 degrees Fahrenheit 160 degrees Centigrade.

Second barrel zone 325 degrees Fahrenheit 163 degrees Centigrade

Third barrel zone 325 degrees Fahrenheit 163 degrees Centigrade

Forth barrel zone 315 degrees Fahrenheit 157 degrees Centigrade

First die zone at the gate 325 degrees Fahrenheit 163 Degrees Centigrade

Second die zone at the land 310 degrees Fahrenheit 153 Degrees Centigrade

The said thermoplastic claims 1,2,3,4, now extrudes from the machine and enters a specially designed suction chamber that is water fed at 50 degrees Fahrenheit, 10 degrees Centigrade and then enters a series of said sizing dies in the cooling tank to an unexpected unobvious resulting said thermoplastic form said claim 1.