Patent Claims

1. Process for producing plastics products made of polyphenyl sulphone (PPSU) and polytetrafluoroethylene(PTFE), characterized in that
the PTFE content of the mixture is from 4.0% by weight to 6.0% by weight, that
the PPSU content of the mixture is from 94.0% by weight to 96.0% by weight,
that prior to the extrusion process the proportion of PTFE with a particle size smaller than 3 μm is from 8 to 12% by volume and the proportion of PTFE with a particle size smaller than 25 µm is at at least 88% by volume,
~~and~~ that the PTFE and the PPSU are mixed in a~~n~~ first extruder at a temperature of from 345~~340~~°C to 385~~390~~°C at an ambient pressure of from 500 to 700 mbar, at a rotation rate of from 220 to 270 min^{-1}, at a screw temperature of from 340 to 390°C and at a torque of from 50% to 80%, and that the pellets obtained after the first extrusion process are ~~processed~~ extruded in a ~~second~~ single-screw extruder to give plastics mouldings.

2. Process according to Claim 1, characterized in that
the specific surface area of the PTFE is from 1.5 to 3.0 m^2/g.

3. Process according to Claim 1 or 2, characterized in that
the PTFE content of the mixture is from 4.5% by weight to 5.5% by weight and that
the PPSU content of the mixture is from 95.5% by weight to 94.5% by weight.

~~4. Process according to at least one of Claims 1 to 3,~~

~~characterized in that~~
~~the two plastics PPSU and PTFE are mixed with one another at a temperature of from 345 to 385°C in a first extruder at an ambient pressure of from 500 to 700 mbar, at a rotation rate of from 220 to 270 min^{-1}, at a screw temperature of from 340 to 390°C and at a torque of from 50% to 80% and that the pellets obtained after the first extrusion process are extruded in a single-screw extruder to give plastics mouldings.~~

~~54~~ 54. Process according to at least one of Claims 1 to ~~43~~ 43, characterized in that the pellets are extruded at a screw temperature of from 345 to 390°C to give plastics mouldings.

~~65~~ 65. Use of plastics mouldings produced by a process according to at least one of Claims 1 to ~~5~~ 4 for producing anti-wear tapes.

~~76~~ 76. Use of anti-wear tapes according to Claim ~~6~~ 5 in pipes for fluids.