Claims

1. A thermoplastic polyurethane elastomer, wherein the elastomer is made of

   a) 1,6-Hexamethylen diisocyanate with a content of 19,5 to 21,5 weight-%,

   b) A polycarbonate diol based on 1,6-Hexane diol with a number average molecular weight between 1900 and 2100 g/mol with a content of 60,0 to 62,0 weight-%,

   c) 1,12-Dodecanediol with a content of 16,5 to 18,5 weight-%,

   in the presence of

   e) TIPT catalysts,

   with the addition of

   f) $BaSO_4$ in the range of 0 to 35 wt.-%, based on the weight of the thermoplastic polyurethane made of components a) to c),

   g) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

   h) optionally, further additives and/or auxiliary substances.

2. A thermoplastic polyurethane elastomer, wherein the elastomer is made of

   a) 1,6-Hexamethylen diisocyanate with a content of 19 to 21 weight-%,

   b) A polycarbonate diol based on a mixture of 1,4-Butane diol and 1,6-Hexane diol with a number average molecular weight between 1900 and 2100 g/mol with a content of 58 to 60 weight-%,

   c) 1,12-Dodecanediol with a content of 18,8 to 20,8 weight-%,

   in the presence of

   e) TIPT catalysts,

   with the addition of

f) $BaSO_4$ in the range of 0 to 35 wt.-%, based on the weight of the thermoplastic polyurethane made of components a) to d),

g) Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

h) optionally, further additives and/or auxiliary substances.

3. A thermoplastic polyurethane elastomer, wherein the elastomer is made of

a) 336,00 g 1,6-Hexamethylen diisocyanate,

b) 1001,79g DE C 2201,

c) 4,94 g 1,12-Dodecanediol,

in the presence of

e) 0,7 g TIPT catalysts and 4,94 g Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

with the addition of

f) 426,4 g $BaSO_4$,

g) 5,81 g 2',3-bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]]propionohydrazide, and

h) 5,81 g Licowax E.

4. A thermoplastic polyurethane elastomer, wherein the elastomer is made of

a) 378,0 g 1,6-Hexamethylen diisocyanate,

b) 1056,50 g DE C XP 2613

c) 354,42 g 1,12-Dodecanediol,

in the presence of

e) 0,74 TIPT catalysts and 5,38 g Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate),

with the addition of

f) 426,40 g $BaSO_4$,

g) 5,81 g 2',3-bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]]propionohydrazide, and

h) 5,81 g Licowax E.

5. A T-frame for Intrauterine Systems characterized in that the frame is made of a thermoplastic polyurethane elastomer according to claims 1 to 4.

6. A T-frame for Intrauterine Systems according to claim 5 characterized in that the T-frame contains locking parts on the vertical stem to hold the capsule with the active compound.

7. A T-frame for Intrauterine Systems according to claim 5 or 6 characterized in that the T-frame contains a metal ring to enhance ultrasound visibility.

8. Use of a thermoplastic polyurethane elastomer according to claims 1 to 4 for the manufacture of T-frames for Intrauterine Systems.