# Activity 3.2: The history of fibres

## History of the development of synthetic fibres15

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|  |  | **BASIC PATENT** | | |
| Type of fibre | Inventor | Patent No. | Application date | Start of production |
| Polyvinyl chloride | F. Klatte | DRP.281877 | 4.7.1913 | 1931 |
| Polyvinyl alcohol | W. O. Herrmann and W. Haehnel | DRP.685048 | 11.3.1931 | before 1935 |
| Polyamide (PA 6.6) | W. H. Carothers | U.S.P.2.071.250/1 | 3.7.1931 | 1938 |
| Polyethylene | E. W. Fawcett and co-workers | Brit. P. 471590 | 4.2.1936 | 1937 |
| Polyvinylidene chloride | R. M. Wiley | U.S.P.2.160.931 | 1.7.1936 | 1940 |
| Polyurethane | O. Bayer, H. Rinke and co-workers | DRP.728981 | 13.11.1937 | 1939 |
| Polyamide (PA 6) | P. Schlack | DRP.748253 | 11.6.1938 | 1939 |
| Polytetrafluoroethylene | R. J. Plunkett | U.S.P.2.230.654 | 1.7.1939 | 1954 |
| Polyester | J. R. Whinfield and J. T. Dickson | Brit.P.578079 | 29.7.1941 | 1947 |
| Acrylic fibres | H. Rein  R. C. Houtz | DBP.915034  U.S.P.2.404.713 | 14.4.1942  17.6.1942 | 1943  1942 |
| Polyamide (PA 11) | J. Zeltner and M. Genas | Frz.P.928265 | 21.4.1944 | 1948 |
| Polyvinyl acetate | T. Tomonari and co-workers | DBP.932626 | 17.3.1951 | 1948 |
| Polypropylene | G. Natta, P. Pino and G. Mazzanti | Ital. P.535712 | 8.6.1954 | 1959 |
| Aramid fibres | DuPont | Belg.O.565266/8 | 1957 | 1962 |
| Polylactic acid | DuPont | U.S.P.2.668.162 | 1954 | n.a. |

15 Source (adapted from):

P.-A. Koch(2008). Faserstoff-Tabellen; IN Koslowski, Hans-J. (Hrsg). Chemiefaser-Lexikon: Begriffe - Zahlen – Handelsnamen. 12., erweiterte Aufl. Frankfurt am Main: Deutscher Fachverlag GmbH.