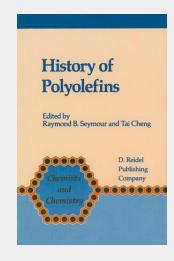
History of Polyolefins

The World¿s Most Widely Used Polymers

The word Polyethylene was probably first pronounced in a lecture which M. P. E. Berthelot delivered on April ,27, 1863 to the Chemical Society in Paris, reporting on the "polymerization" of various simple organic compounds (1). Much later this work appeared twice in the literature before the classical ICI breakthrough in the 1930's which is so colorfully described in Ballard's lecture. Once it came up at the end of the last century when H. von Pechmann obtained "a white flocculant material" from the decomposition of diazomethane which, one year later, was termed to be "polymethylene" - (CH) - from E. Bamberger 2 and F. Tschiemer (1). At that time the investigators were disappointed about this product because it was not what they had expected to find in their experiments. As a result any further work was discontinued. The second time that the word polyethylene appeared in the literature to describe a "white solid powder" was in 1930 when C. S. Marvel and M. E. P. Friedericks (2) attempted to prepare alkylated As compounds in which all five valencies were covalently bonded to five monovalent-aTkyl groups. They reacted Tetra-ethyl-arsenium bromide with butyllithium and expected to get tetra ethyl butyl arsenium. Instead they obtained LiBr + AsEt3 + gaseous products. Delicate and somewhat time-consuming analysis gave a surprising result: ethane and C 's were there in the 4 expected quantities but ethylene was missing - or almost missing in the gas mixture.

Springer Book Archives



160,49 € 149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

ArtikeInummer: 9789401089166

Medium: Buch

ISBN: 978-94-010-8916-6 Verlag: Springer Netherlands Erscheinungstermin: 13.11.2013

Sprache(n): Englisch Auflage: 1986

Serie: Chemists and Chemistry **Produktform:** Kartoniert

Gewicht: 534 g Seiten: 336

Format (B x H): 155 x 235 mm



