

Atmospheric Pressure Plasma Treatment of Polymers: Relevance to Adhesion; 416 pages; 9781118747513; Michael Thomas, K. L. Mittal; 2013; John Wiley & Sons, 2013

The Atmospheric Pressure Plasma (APP) treatment for polymer surface modification has attracted much attention recently, owing to its advantages over other techniques and its ability to improve adhesion without tampering with polymers bulk properties. Focusing on the utility of APP treatment for enhancing polymer adhesion, this book covers the latest development in this important and enabling technology, providing profound insights from many top researchers on the design and functions of various types of reactors, as well as current and potential applications of APP treatment.

13 Atmospheric Plasma Treatment in Extrusion Coating: Part 1 Surface Wetting and LDPE Adhesion to Paper 329 Mikko Tuominen, J. Lavonen, H. Teisala, M. Stepien and J. Kuusipalo. atmospheric pressure plasma treatment [8-12]. In this paper two types of plasma sources, Diēžuse. Coplanar Surface Barrier Discharge (DCSBD) operated at. Two types of atmospheric pressure plasma sources were. used for plasma modiēžcation of the polyamide surface. Atmospheric pressure DCSBD was used as a source of non modification of polymers for improved adhesion: a critical. review, J. Adhes. Sci. 217 8 Atmospheric Pressure Plasma Polymerization Surface. Treatments by Dielectric Barrier Discharge for Enhanced. Polymer-Polymer and Metal-Polymer Adhesion . 219. Maryline Moreno-Couranjou, Nicolas D. Boscher, David. 246. 9 Adhesion Improvement by Nitrogen Functionalization of. Polymers Using DBD-based Plasma Sources at Ambient. Pressure . 251.