

胶粘剂结构与性能概述

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摘要: 胶粘剂是一类单组分或多组分的, 具有一定粘接性能的, 在特定条件下能使被胶接材料紧密胶合在一起的物质, 其分类和组成多样, 是支撑国民经济发展的重要材料。该文结合了高分子物理关于高分子三个结构层次和三种力学状态的相关知识, 概述了胶粘剂的结构, 并尝试探讨了胶粘剂的结构与其化学、力学及加工性能的一些相关性。

关键词: 胶粘剂; 近程结构; 远程结构; 凝聚态结构; 化学性能; 力学特性; 加工性能

Overview of adhesive structure and properties

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Abstract: Adhesive is a single-component or multi-component substance which has a certain bonding characteristics and can make the bonded materials tightly glued together under a specific condition, with a variety of classification and composition, and is an important material to support the development of national economy. Combining the relevant knowledge of polymer physics on three structural levels and three mechanical states of polymer, this paper summarizes the structure of the adhesive, and tries to explore some correlations between the structure of the adhesive and its chemical, mechanical and processing properties.

Keywords: Adhesive; Short-range structure; Long-range structure; Condensed structure; Chemical properties; Mechanical properties; Processing properties