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Adhesion to Fluoropolymers

By Ralf H. Dahm, Derek M. Brewis

Smithers Rapra Technology. Paperback. Condition: New. 134 pages. Dimensions: 11.5in. x 8.1in. x 0.3in. Fluorinated polymers have a number of very useful properties such as excellent chemical resistance. However, they are usually difficult to bond without a pretreatment. There are exceptions and untreated poly(vinylidene fluoride), for example, may be successfully bonded with an amine-cured epoxide. The most effective methods to pretreat fully fluorinated polymers were developed in the 1950s. Much work, especially on electrochemical and plasma treatments, has since been carried out but to date these have not proved as effective as the early methods. Partially fluorinated polymers may be treated like polyolefins, for example, flame, and plasma treatments are very effective. Aqueous and alcoholic solutions of Group I hydroxides are also very effective. Fluoropolymers can provide a combination of properties including high temperature resistance, excellent resistance to many chemicals and ultraviolet (UV) radiation, fire resistance and low friction. Fluoropolymers are relatively expensive and they are generally used in specialised applications such as linings for chemical plant, spacecraft coatings that are resistant to atomic oxygen, fire-resistant coatings for cables, and of course, non-stick functions. There are more than twenty different fluoropolymers that are commercially available. Good adhesion is required in a...



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