Practical Guide to Adhesive Bonding of Small Engineering Plastic and Rubber Parts

Description: The guide discusses 30 of the most commonly used generic families of both thermoplastics and thermoset plastics and also includes a number of commonly used rubbers and elastomers.

Choosing the best adhesive grade for the joining of two plastics or elastomers for a production application can be an exacting design task. This is especially true when joining dissimilar materials and when bonding certain plastics. Adhesives can provide the optimum - indeed often the only - assembly method. However it is all too often that the adhesive is not fully considered at the design stage. This can result in much time and trouble for engineers to get from the prototype stage to full production. This Practical Guide discusses the adhesive bonding of 30 of the most commonly used generic families of thermoplastics and thermoset plastics as well as a number of commonly used rubbers and elastomers.

This guide provides a full explanation of the cure mechanisms and discusses the performance benefits for four types of engineering adhesives (cyanoacrylates, epoxies, two-part acrylates and UV curing adhesives). There are also chapters on joint design, dispensing systems, the surface preparation for ‘difficult’ plastics and information on several other adhesive technologies.

It will be of particular interest to all in industry bonding to metals, composites, wood and other rubbers. End-users and new product developers will benefit from the Practical Guide approach of this title.

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