Part Design & Assembly

Adhesives

Chemical Methods

Chemical methods of assembly include the use of adhesives, adhesive tape or cements. These methods are readily used for attaching awkwardly shaped or fragile materials. Adhesives are also frequently used for leak proof assembly of dissimilar materials. The strength of chemical bonds is limited by the tensile strength of the bonding agent or its degree of adhesion to the substrate. Chemical methods may require longer cycle times and part fixturing as the adhesive or cement cures. Solvent cements may be used in select cases, usually with like materials, to provide a strong leak proof bond.

**APPLIED LOAD AND STRESS ORIENTATION**

- Tension
- Shear
- Cleavage/Peel
- Compression

Plexiglas® acrylic plastic is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives.

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