







Matrix Materials

- Polymer matrix (most common)
 - Thermoset resins: cure process involves irreversible crosslinking
 - · Examples:
 - Polyester: low cost
 - Vinyl ester: intermediate cost/performance
 - Epoxy: higher cost/performance
 - Phenolic: low flammability and smoke production
 - · Finite pot life extended by refrigeration
 - Cure time can be shortened by elevated temperature
 - Thermoplastics: no chemical change during processing
 - · Heated to softening temperature for processing
 - · Can be reheated/re-processed
 - · Processing is more difficult than thermosets
 - · PEEK is commonly used for high performance applications

MERCER





















