

# COMPOSITE MATERIALS HANDBOOK VOLUME 1. POLYMER MATRIX COMPOSITES GUIDELINES FOR CHARACTERIZATION OF STRUCTURAL MATERIALS

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**PURPOSE** 

The primary purpose of MIL-HDBK-17 is the standardization of engineering data development methodologies

related to characterization testing, data reduction, and data reporting of properties for polymer matrix composite materials. In support of this objective MIL-HDBK-17 publishes properties on composite material systems for which data meeting specific requirements is available. In addition, MIL-HDBK-17 provides selected guidance on other technical topics related to composites, including material selection, material specification, material processing, design, analysis, quality control and repair of typical polymer matrix composite materials. Thus, MIL-HDBK-17 is published in three volumes, and serves as a source for the following:

- Volume 1: Documents material characterization, data development, and methodology guidelines adaptable to a wide variety of needs, as well as specific requirements to be met by data published in the handbook. Most procuring and certifying agencies prefer, and some may require, that composite material systems used in critical applications either be characterized in accordance with Volume 1 guidelines or selected from material systems published in Volume 2.
- Volume 2: Provides a repository of potential design data. The documented property summaries for material systems provide data meeting the criteria for any of the MIL-HDBK-17 data classes.
- Volume 3: Source for additional technical guidance on a wide variety of disciplines related to polymer matrix composites.



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