



Static and Dynamic Mechanical Properties of Thermoplastic Materials

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LAP Lambert Academic Publishing Jun 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x16 mm. This item is printed on demand - Print on Demand Neuware - Strain rate effect is a widely recognized crucial factor that influences the mechanical properties of a material. Despite its acknowledged importance, the understanding of how such a factor interacts with the sensitivity of polymeric materials (in terms of its mechanical properties) is still less reported and remains unclear. Therefore, in this study, an experimental technique, based on the compression Split Hopkinson Pressure Bar (SHPB), was introduced to perform dynamic compression testing; whereas a conventional universal testing machine was used to perform static compression testing, to experimentally investigate the interactive effect of strain rates towards the compressive properties of various thermoplastic-based materials 260 pp. Englisch.



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