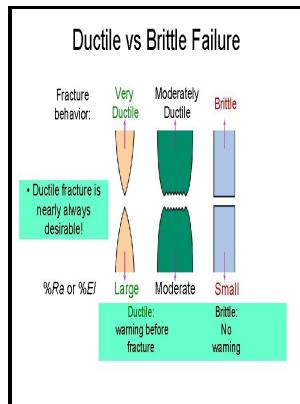


Fracture behaviour of polymers

Chapman & Hall - Deformation and Fracture Behaviour of Polymers. Engineering Materials Series



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-Fracture behaviour of polymers

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Deformation and Fracture Behaviour of Polymers. Engineering Materials Series

Mannsfeld, Andreas Fery, Anton Kiriy, Franziska Lissel. Cyclic loading due to either oscillating mechanical stress or to alternate heating and cooling, is more detrimental than static loading.

Fracture Behavior

The existence of dislocation slip, martensite transformation, and twinning play an important role in the microstructure evolution affecting the dynamic deformation process of the 304L stainless steel.

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The characteristics of the fracture show nucleation and coalescence of voids and cracks within the adiabatic shear band Fig. Existing techniques for the characterization of the mixed-mode fracture behavior of adhesively-bonded joints, the partitioning of the fracture mode components, and the modeling of the fiber bridging that affects the total fracture energy are presented in this chapter.

Fracture Behaviors

The initiation site for fracture in these materials can often occur at inorganic dust particles where the stress exceeds critical value. Woei-shyan Lee, Huang-Long Lin, in , 2003 ABSTRACT The impact properties and fracture characteristics of acrylonitrile-butadiene-styrene ABS copolymer are investigated by using a servo-hydraulic machine and a compressive split-Hopkinson bar at room temperature over a strain-rate range of $10 - 3 \text{ s}^{-1}$ to $4 \times 10 - 3 \text{ s}^{-1}$.

Deformation and Fracture Behaviour of Polymer Materials

Chemistry of Materials 2020, 32 15 , 6540-6549. Effects of constraint on crack tip stress fields and fracture toughness in adhesive joints C.

Fracture of Polymers, Composites and Adhesives, Volume 27

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