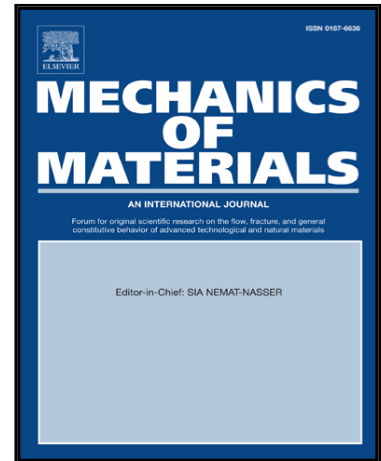


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Study of the plastic deformation behavior of ductile polymers: Use of the material key curves

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**Highlights**

- Material key curves (MKC) are functions used in fracture tests of ductile polymers
- Relationship between MKC and deformation mechanisms is researched
- A single specimen method allowed to explore also impact loading conditions
- Deformation mechanisms are investigated, for the first time on ABS, by tomography
- MKC are sensitive to the type of deformation mechanisms and to constraint degree

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