



高吸收撞擊能量材料

High Impact Absorbing Protective Material

簡介 Introduction

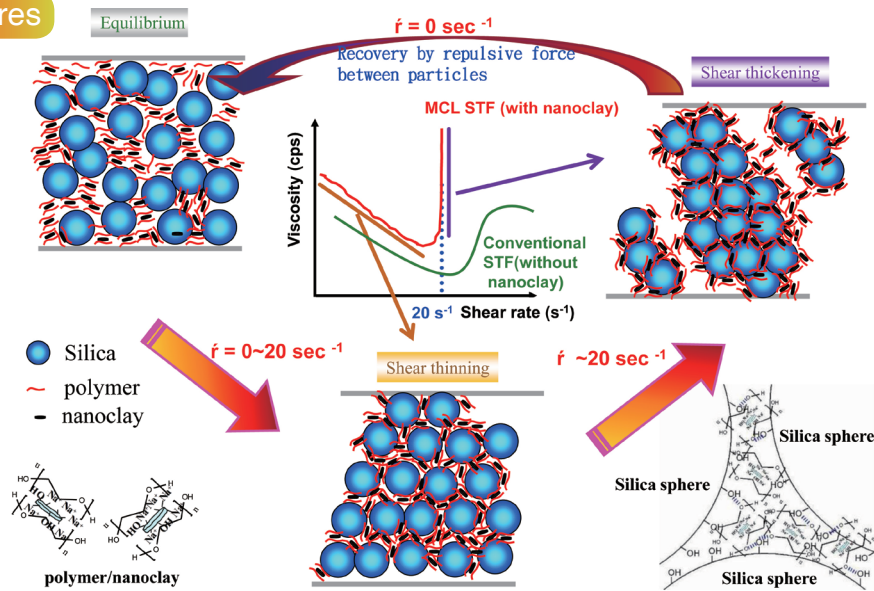
本高吸收撞擊能量材料是一種有應變率狀態下可產生快速增稠響應之複合技術，其特點是：

- 平常無應變率時呈現柔軟狀態
- 受撞擊時，能瞬間變硬而可大量吸收及分散能量，抵消外界而來之衝擊力
- 受撞擊後具回復性，回復至平常之柔軟狀態

The developed high impact energy absorbing material is a kind of shear thickening composite, which is characterized by:

- At an ordinary soft state with zero strain rate
- It can be hardened instantly under impact to disperse and absorb energy to relieve external impact force
- After impact, it can be resilient to its normal soft state

特色 Features



成果 Accomplishments

本高吸收撞擊能量材料較傳統高分子優 20%

The ability of this high impact energy absorbing material was found 20% better than conventional polymer based materials



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