
Cinema 4d X Particles Crack !EXCLUSIVE! 19

as the film thickness, h , reduces further, and the material is placed under compression and shear, the excess curvature on the inner face of the delamination front increases. this results in the delamination front also becoming more asymmetric and a new delamination front will develop. this then leads to the motion of the delamination front to the outer face of the film. the zig-zag behaviour of the delamination front then is observed in the region between crack hops as the asymmetry is reduced. this asymmetry is related to the curvature of the delamination front and is significantly reduced, as h decreases, in the regions between hops (fig. 5b). in these regions the delamination front is symmetric and the excess curvature is small. this again is due to the material being placed under compression and shear in these regions. the slip line instability is also enhanced in these regions and the delamination is initiated. the slip line instability is due to the interlocking of the grain boundaries by shear 23 and is distinct from the 'shear' instability which is related to the influence of shear on the plastic deformations of the film 24 . the motion of the delamination front is then driven by the motion of the crack tips which hop from one position to another on the surface of the film. this is shown in fig. 5c where the trajectory of a single crack tip is tracked. each hop of a crack tip leads to the initiation of delamination on the adjacent film. the motion of these crack tips, which are the main driving force for the delamination dynamics, can be studied by measuring the displacement of the crack tip between hops as a function of time. the results of this study are shown in fig. 5d which is similar to the velocity-drop test of crack motion in a bulk material $v_0 t - t_c \rightarrow \infty$. the results indicate that the crack tip hops with a characteristic velocity of $v_{\infty} = v_0 t_c - v_0 t - 0$. the data also indicate that each crack hop generates a new delamination front on the adjacent film and the motion of the crack tip is an important component of the larger motion of the delamination front. the results also indicate that the shear stress at a crack tip increases as the crack hops to a new position on the film. this could be expected since the shear stress at the crack tip will be higher if the crack is closer to a shear band. it is also important to note that the crack hops to a new position at a rate of $v_0 t_c - v_0 t - 0$. as such, this component of the crack hopping rate is determined solely by the shear stress at the crack tip.

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