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Figure 1 Presents The Model Assembly For The Thermoforming Simulation Of A Long Continuous Fiber Carbon-PPS Composite Sheet. The Circular Sheet Has 1 Mm Thickness And 500 Mm Diameter. The Composite Layup Was Composed Of Three Layers Oriented At -45, 0, And +45°. A Preload Of 3 Feb 3th, 2024

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Plastic Deformation, Including Cr Eep, In These Materials Remains Poorly Understood. The Main Challenge Being That Their Mechanical Response Depends Very Strongly On The Characteristic Size Of Their Micro- Or Nanostructure (e.g. Grain Size And Orientation) [6–11]and Its Size Distribution [12–14]. These Size Effects Arise From The Feb 10th, 2024

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