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(e.g., through origami/kirigami design principles or other topological configurations), it is possible to balance the deformability and strength in mechanical metamaterials to cater specific applications. 67-69, 142-144 Fang et al. have shown that different deformation modes (i.e., contraction, shearing, bending, and facet bending)

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Typical tensile specimen, showing a  
reduced gage section and enlarged  
shoulders. To avoid end effects from the  
shoulders, the length of the transition

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region should be at least as great as the diameter, and the total length of the reduced sections should ... Chapter 2, "Mechanical Behavior of Mate-

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