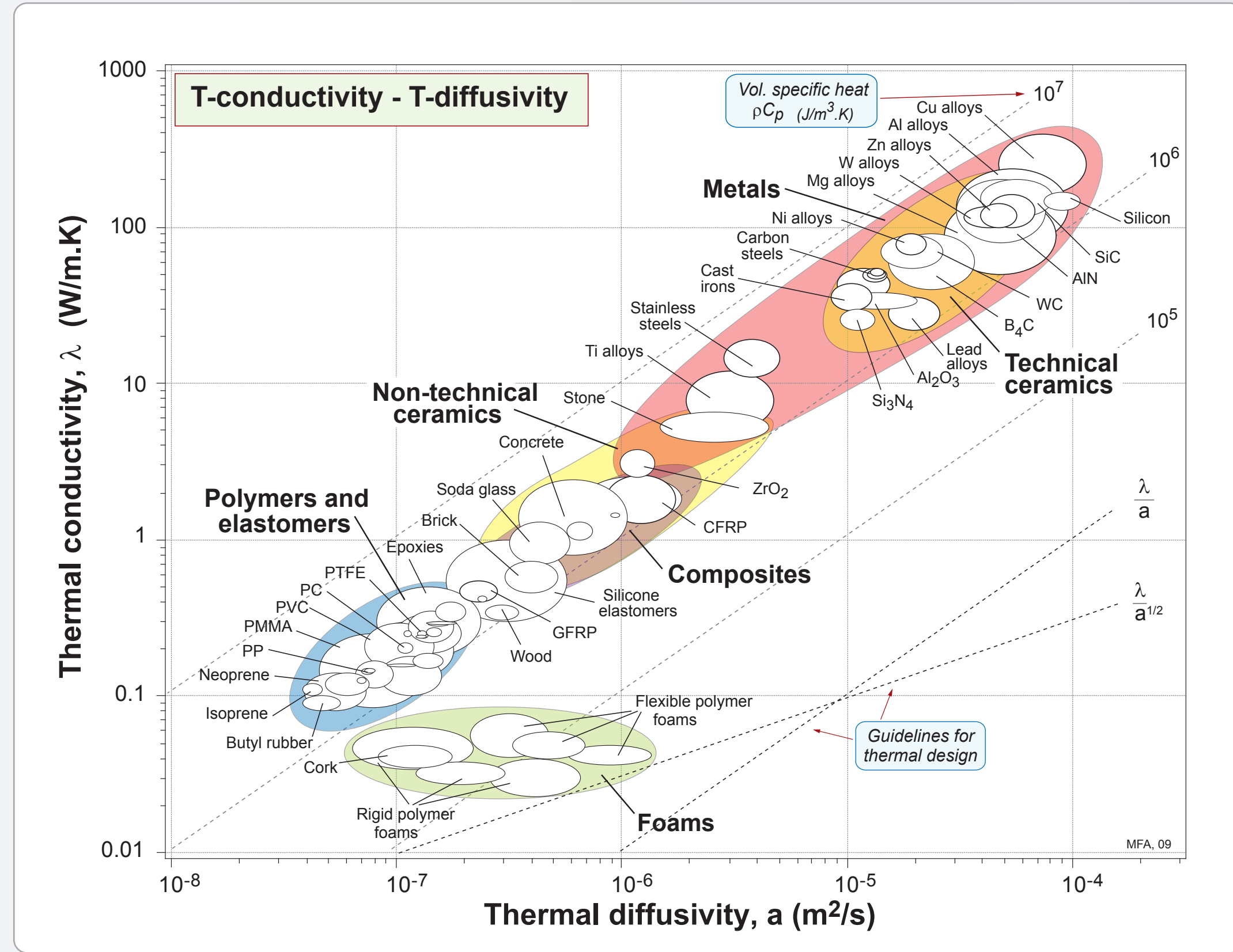
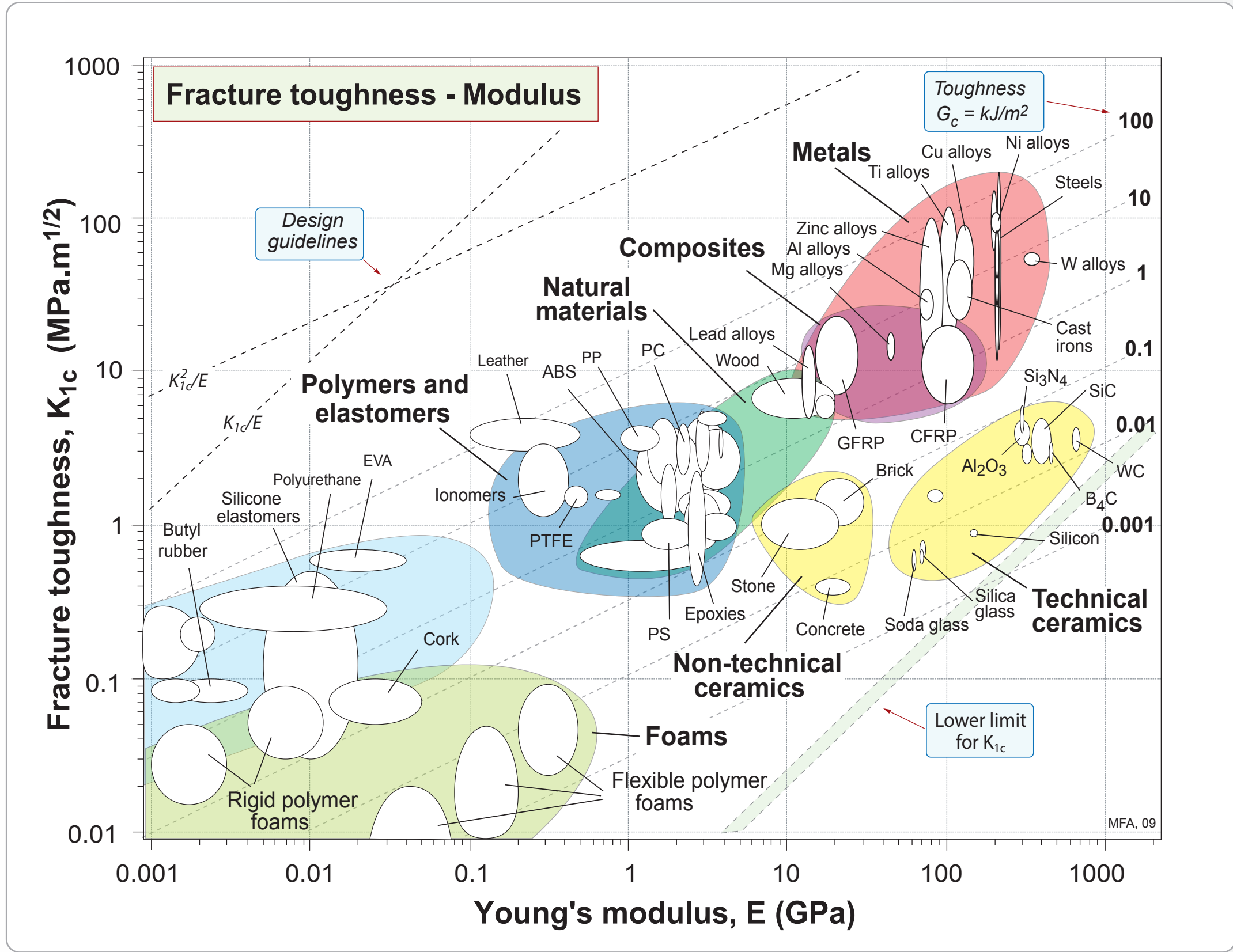
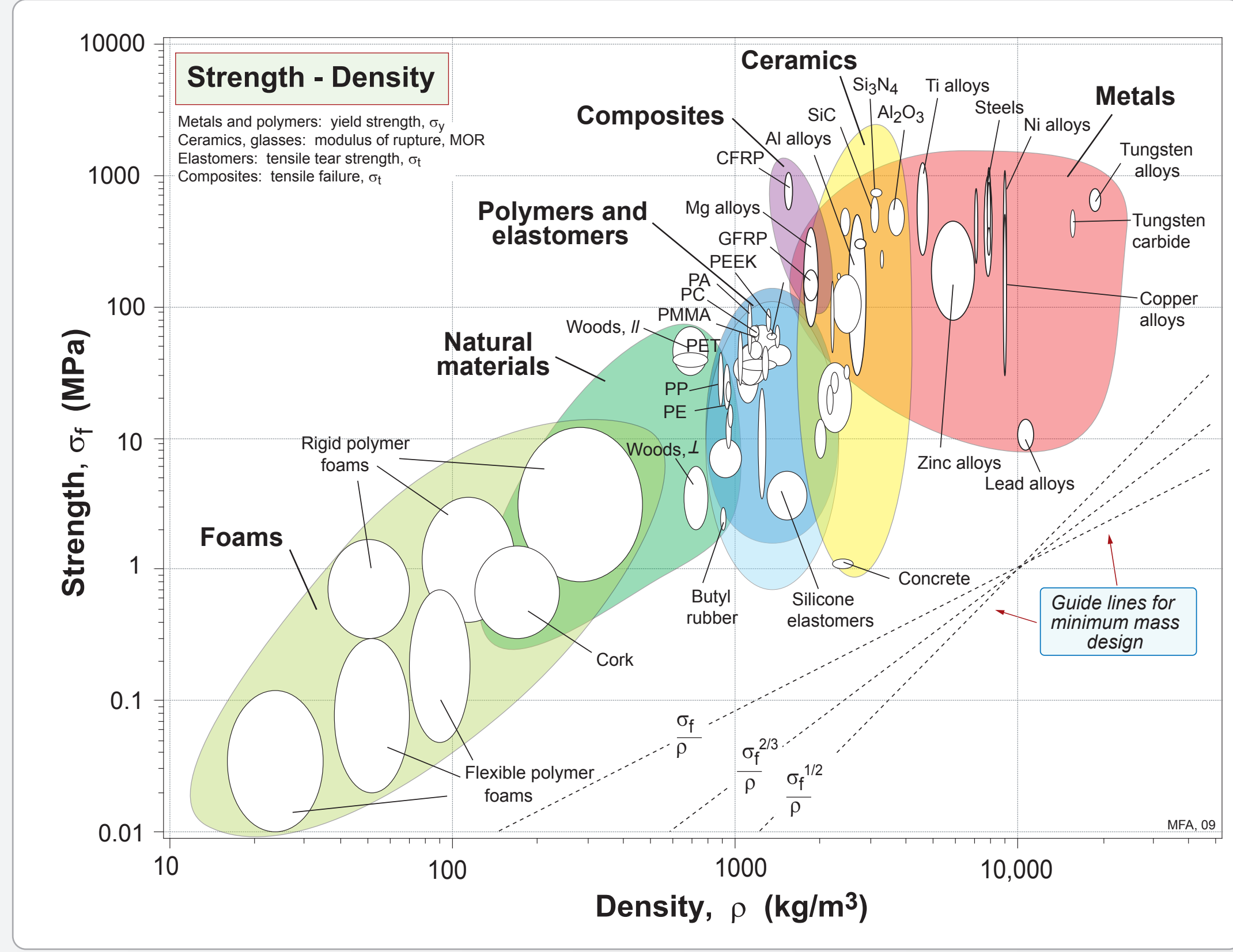
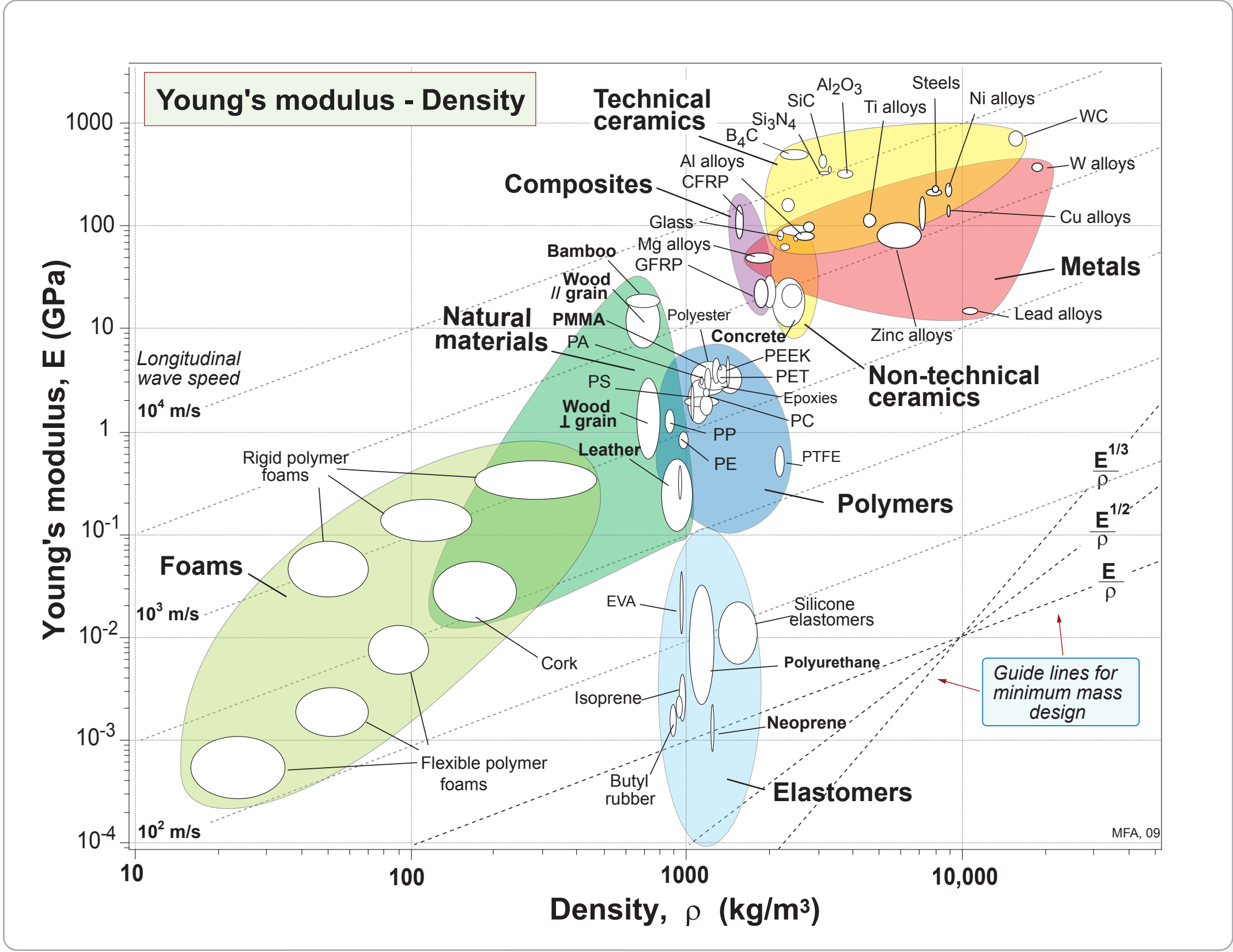


Mechanical Design



Mechanical design:

(Modulus-density, Strength-density, Fracture toughness-modulus, Thermal: Conductivity-diffusivity)

The upper two charts and their guide lines help choose materials for lightweight design. The lower left chart guides choice for fracture-resistant design, the lower right guides thermal design. All four are fully documented, with case studies of their use, in Chapters 4 and 5 of the text "Materials Selection in Mechanical Design" 5th edition, by Ashby, M.F., Butterworth Heinemann, Oxford, UK (2017).

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