Fabrication, characterisation and modelling of uniform and gradient auxetic foam sheets

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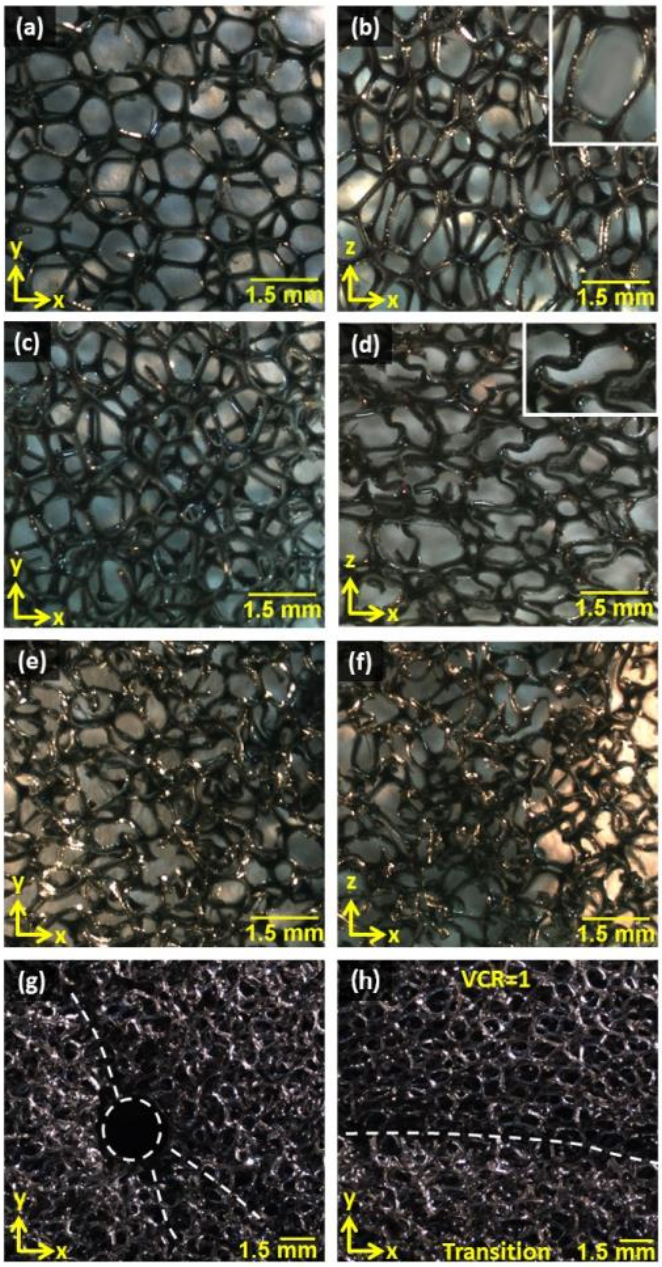

Figure 3: Foam micrographs. Unconverted R30FR foam a) x-y plane and b) x-z plane; VCR = 1 quadrant of gradient sheet c) x-y plane and d) x-z plane; VCR = 2.9 quadrant of gradient sheet e) x-y plane and f) x-z plane; g) Uniform triaxially-compressed auxetic sheet with pin hole and surrounding creases (marked); h) Defined line region between VCR = 1 region (top of image) and higher density transition region (bottom of image) in the gradient sheet (marked). Inserts in b & d include detailed images blown up to 1.5 times the main image.