

# Stiffness of auxetic foams

TOMASZ WIĘCEK AND ANDRZEJ WASILEWSKI

*The Faculty of Mathematics and Applied Physics, Rzeszów University of Technology, Powstańców  
Warszawy 12, 35-959 Rzeszów, Poland  
ftkwiece@prz.edu.pl*

## ABSTRACT

An optical method for measurements of mechanical properties of foams. The method is based on analysis of diffraction pattern and does not require calibration. The measurements of the stiffness were performed for the conventional and auxetic foams. It was found that the stiffness of auxetic foams is several times than that of conventional foams.