



**AN EXPERIMENTAL STUDY ON THE STRUCTURAL AND MECHANICAL PROPERTIES OF BATCH
PROCESSED PVC/NBR BLEND FOAMS**

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Miscible blends of poly(Vinyl chloride)/nitralle butadiene rubber (PVC/NBR) were batch-foamed using CO₂ as a blowing agent as a function of foaming temperature, foaming time, and blend composition. Foam morphologies were characterized in terms of the cell density, foam density, and average cell size. Elastic modulus, tensile strength, and elongation at break of the foamed PVC/NBR samples were measured for different cell morphologies. The findings show that the mechanical properties are significantly affected by the foaming parameters that varied with the cell morphologies.