WEIBULL ANALYSIS OF THE DENSITY OF PINEAPPLE LEAF FIBERS (PALF) WITH DIFFERENT DIAMETERS

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Resumo:
Several economical, technical and environmental advantages are currently justifying the replacement of synthetic fibers by natural fibers. However, natural fibers obtained from plants, also known as lignocellulosic fibers, do not present the same dimensional uniformity. In fact, they sow large dispersion of values, as compared to the synthetic fibers. In the case of the fiber extracted from the Pineapple leaf, little is known about its properties and dimensional characteristics. However, so far no work was carried out on the correlation between the diameter and the density of these fibers. Therefore, the objective of this work was to characterize the diameter of Pineapple leaf fibers (PALF) and to define by means of the Weibull statistic the diameter dependence of the density.