

## Article

# Effect of Hydrothermal Aging on Damping Properties in Sisal Mat-Reinforced Polyester Composites

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## Supplementary Material

Tables S1 to S3 show sisal fibers physical, mechanical and chemical properties from literature

**Table S1.** Physical properties of sisal fibers. Adapted from: (Peças et. al.,[1])

Physical Properties	Value
Density (g/cm <sup>3</sup> )	1.36
Diameter (µm)	7-47
Moisture Content (%)	11

**Table S2.** Mechanical properties of sisal fibers. (Peças et al., [1])

Mechanical Properties	Value
Tensile (MPa)	577-855
Young's Modulus (GPa)	9-22
Elongation at Break (%)	1.9-3

**Table S3.** Chemical Properties of sisal fibers. (Gurunathan et al., [2])

Chemical Properties	Value
Cellulose (wt%)	67-78
Hemicellulose (wt%)	10-14
Lignin (wt%)	8-11
Pectin (wt%)	10
Water soluble (wt%)	1.3
Wax (wt%)	2
Microfibrillar angle (deg.)	10-22

## References

1. Peças, P., H. Carvalho, H. Salman, and M. Leite. (2018). "Natural Fibre Composites and Their Applications: A Review." *Journal of Composites Science* 2 (4): 66. doi:10.3390/jcs2040066.
2. Gurunathan T., S. Mohanty, S. K. Nayak, (2015) "A review of the recent developments in biocomposites based on natural fibres and their application perspectives". *Composites Part A: Applied Science and Manufacturing*, 77, 1-25,doi:10.1016/j.compositesa.2015.06.007.

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