Accepted Manuscript

Mechanical and thermal behavior dependence on graphite and oxidized graphite content in polyester composites

P. González García, R. Ramírez-Aguilar, M. Torres, Edgar A. Franco-Urquiza, J. May-Crespo

PII: S0032-3861(18)30573-1

DOI: 10.1016/j.polymer.2018.06.069

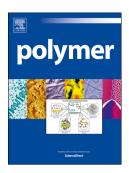
Reference: JPOL 20706

To appear in: Polymer

Received Date: 3 April 2018
Revised Date: 30 May 2018
Accepted Date: 24 June 2018

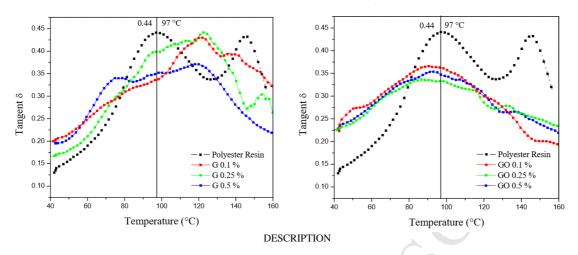
Please cite this article as: García PGonzá, Ramírez-Aguilar R, Torres M, Franco-Urquiza EA, May-Crespo J, Mechanical and thermal behavior dependence on graphite and oxidized graphite content in polyester composites, *Polymer* (2018), doi: 10.1016/j.polymer.2018.06.069.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

TAN DELTA FOR POLYESTER RESIN AND POLYESTER COMPOSITES (G-GRAPHITE AND GO-GRAPHITE OXIDE)



It is possible to observe a maximum peak at 97 °C and a second peak around 145 °C for the polyester resin. However the presence of graphite fillers seems to inhibit the formation of the second peak. When the fillers are introduced into the thermoset polymer, the glass transition temperature curve changes its shape and it is considerably shifted. However, graphite oxide tends to agglomerate, which causes a reduction in the molecular movement of the polyester chains.

Download English Version:

https://daneshyari.com/en/article/7818750

Download Persian Version:

https://daneshyari.com/article/7818750

<u>Daneshyari.com</u>