

ERRATUM

Determination of Density and Birefringence of Poly(ethylene terephthalate) Fibers Using Raman Microscopy

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There is a sign error in eq. (10). The correct equation for the Lorentz density, ρ , of poly(ethylene terephthalate) using a 10 \times microscope objective is

$$\rho = 1.402 + 0.00177 * I_{ZZ996/702} - 0.0024 * FWHM_{ZZ1725} + 0.00083 * (I_{ZZ996/702})^2 \quad (10)$$

where $I_{ZZ996/702}$ is the ratio of the intensities of the 996 cm^{-1} band to the intensity of the 702 cm^{-1} band in the Raman spectra and where ZZ refers to the backscattering geometry with the laser and the analyzer polarized parallel to the fiber axis. $FWHM_{ZZ1725}$ is the full width at half-maximum of the 1725 cm^{-1} Raman band.

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