



ASTM D-5594

Determination of the Vinyl Acetate Content of Ethylene-Vinyl Acetate (EVA) Copolymers by FTIR

This method uses FTIR Spectroscopy to quantify the vinyl acetate content of EVA copolymers which contain from 0.5-55% vinyl acetate. The vinyl acetate concentration in these polymers affects the physical properties of the copolymers and is therefore of interest to measure. In this method the 1020 cm^{-1} band is used for vinyl acetate concentrations from 0.5-5% and the 609 cm^{-1} band is used for vinyl acetate concentrations in the 5-55% range. The thickness of each sample is measured internally using an ethylene band at 720 cm^{-1} (for 28-55% vinyl acetate) 2020 cm^{-1} (for 0.5-28% vinyl acetate) or 4250 cm^{-1} (for 5-28% vinyl acetate).

(D5594, D-5594, D 5594)

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