



ASTM D-5227

Measurement of Hexane Extractable Content of Polyolefins

This test method describes an extraction/gravimetric procedure for the determination of the amount of hexane soluble low molecular weight material present in polyethylene, polypropylene, ethylene-propylene copolymers, and ethylene-vinyl acetate copolymers. This method is a modification of the Food and Drug Administration (FDA) procedure for determining hexane extractables of polyolefins. This test is based upon the presumption that the weight of the residue extract present in the solvent is equal to the amount extracted from the film sample and could therefore be quantified by measuring the weight loss of the extracted film, eliminating a more complex and time-consuming evaporation process.

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