

Molecular Weight Distribution and Chemical Composition analysis of Polyethylene by Gel Permeation Chromatography. Influence of detection technologies on data quality.

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INEOS operate a GPC IR5 system from Polymer Char since 2012. This equipment is routinely for molecular weight Distribution (MWD) and Chemical Composition (CC) analysis of polyethylene. This system has replaced equipments based on alternative detection technologies (Refractometer for MWD and Fourier Transform InfraRed spectrophotomer for CC). Data generated from different systems are compared and discussed.