

Title: New Technologies Developed Recently to Quantify Comonomer Distribution of Polyolefin Materials

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References:

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Reference 6:
Reference 7:
Reference 8:
Reference 9:
Reference 10:
Reference 11:
Reference 12:

Images:

Images Guidelines: *Please provide maximum one, on a separate file (doc, pdf, tiff, gif, or bmap), and at a reasonable resolution.*

Abstract:

Chemical composition distribution (CCD) or short chain branching distribution (SCBD), is one of the important structural parameters for polyolefin materials.¹ CCD/SCBD is measured through crystallization-based or interaction-based chromatographic techniques.^{2,3} This paper addresses the most recent advancements with new packing materials aiming for an improved precision, speed, accuracy, and resolution.^{4,5} For example, nonporous core particles coated with materials, such as graphene, reduces undesired secondary size exclusion effect with enhanced chromatographic performances.⁴ Our research has found that non-porous gold coated particles can achieve the compositional separation with improved accuracy and speed.