



Polymer Processing

EVALUATION OF POLYMER PROCESSING BEHAVIOR UNDER LAB AND PILOT PLANT SCALE

KEY WORDS

CHROMATOGRAPHY,
MOLECULAR WEIGHT,
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DISTRIBUTION

DESCRIPTION

Study of processing behavior of polymeric materials. Processing windows of mixtures, composites and nanocomposites. Optimization of the process of transformation, development and performance. Comparison of formulations. Evaluation of process aids, degradation studies, and reactive extrusion.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

Single (L/D= 30) and counterrotating twin screw (L/D= 35) extruders
Polypropylene blow molding machine
Injection molding machine (60 tons)
Laboratory mixer and minimixer

APPLICATIONS

Processing evaluation of new polymer grades and additives
Quality control of raw materials
Solution of processing problems

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