Course Introduction

In recent years, extrusion blow molding has been applied to produce many commodity products. In order to shorten product development cycle, reduce cost, and raise competitiveness, a steady and effective process is a must for product varieties. However, many issues are encountered for extrusion blow molding process and its products, such as non-uniform thickness distribution, blow-through, incomplete molding, and dimension accuracy problem. The main reason is the difficulty in visualizing processing history inside the mold. As a result, the optimization for die/mold design and process parameters is hard to perform efficiently. The conventional trial-and-error method is not effective to problem diagnosis and optimization for new product development.

Goals

- Applications and life cycles for extrusion blow molding
- Current issues and challenges for extrusion blow molding
- Bottlenecks and limitations for traditional product development cycle
- Problem diagnoses and solutions for the automotive water/fuel tank or other products

Course Information

Date: Please refer to official website
Organizer: CoreTech System
Contact: mkt@moldex3d.com
Remark: Small class size of 8-10

Topic

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<td>- Molding Mechanism</td>
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<td>- Challenges encountered</td>
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<td>Case Study (1) Problem diagnosis and solution for automobile water tank</td>
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*The agenda is subject to changes.*
Course Content

The course begins with a brief introduction to extrusion blow molding and its industrial applications. Afterwards, we address the challenges in the development of extrusion blow molding products from the viewpoints of die/mold designs. Furthermore, some real case studies are investigated in order to give students the in-depth understanding of extrusion blow molding process. The first case is concerning the issue of the area with high stretching ratio and its problem overcome for an automobile water tank. The second case regards with the thickness distribution for a windshield wiper tank. We discuss how to optimize the preform thickness profile through the simulation analyses. In this course, students can learn how to use a scientific CAE tool to reach solutions and optimization for extrusion blow products.

Participants

- Boss and managers
- Supervisors in Research or Production Departments
- Part design/production engineers
- Mold design/manufacturing engineers
- Extrusion Blow Molding experts/ engineers
- Material suppliers
- People interested in extrusion blow molding plastic products and processing

Instructor

Our professional instructors all hold extensive qualifications and have many years of hands on experience in injection molding industry. A strength of Moldex3D Advanced Molding Technology Workshop program is our committed and highly experienced instructors. Driven by their passion for the injection molding industry, our instructors are specialists in their relative fields with first-hand knowledge of their industry.