Melt viscosity automatic control program

*meltcon*

Concept

- Resin manufacturing lot changeover
- Use of ground material
- Factors to cause variations in product quality
- Change in resin dry condition
- Molding machine changeover
- Replacement of plasticizing parts

Toyo-developed *meltcon*, automatic resin viscosity control program, automatically controls melt viscosity via injection molding machines.

Features

- The cylinder temperature is automatically adjusted based on the preset reference resin viscosity.

Advantage

<table>
<thead>
<tr>
<th>Ordinary molding</th>
<th>With “<em>meltcon</em>” setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceptable molding</td>
<td>Acceptable molding</td>
</tr>
<tr>
<td>After resin lot changeover</td>
<td>After resin lot changeover</td>
</tr>
<tr>
<td>Difference in flow length ↓↓ Acceptable moldings cannot be produced without readjusting molding conditions.</td>
<td>Difference in flow length ↓↓ Acceptable moldings can be produced without changing molding conditions.</td>
</tr>
</tbody>
</table>

Products: Spiral flow Plate
Material: P C

Comparing method:
The bar flow length has been compared between before and after changeover of the resin manufacturing lot with the molding conditions unchanged.