Polyolefin foams for soft touch in interior applications
Sekisui Alveo – Polyolefin foams for soft touch in interior applications

Closed cell crosslinked foams for soft touch in interior applications

**Sekisui Alveo product range**

> Alveolit
> Alveolen

### Applications

- **Back shelf**
- **Door panel**
- **Headliner/Sun visor**
- **Instrument panel**
- **Armrest**
- **Steering wheel**
- **Low Pressure Moulding (LPM)**
- **Low Pressure Injection Compression (LPIC)**

### Conversion methods

- **Die cutting**
- **Press forming**
- **Thermo / Vacuum forming**
- **Lamination**

### Characteristics

- **Thermal stability**
  - PP: 130
  - PE: 100
- **Weight saving**
- **Water repellent**
  - < 1 vol %
- **Exceptional soft touch**
# Interior Trim Selection Table

<table>
<thead>
<tr>
<th>Products</th>
<th>Applications</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press forming, die cutting</td>
<td>LPM / LPIC</td>
<td>TP EE</td>
</tr>
<tr>
<td>Vacuum forming</td>
<td>Vacuum forming, PUR-RIM</td>
<td>++ 0 ++ + + + + + + + + PP foam, improved LPM / LPIC performance, high strength VF, T_{24h} = 130°C</td>
</tr>
<tr>
<td>Typical production process</td>
<td>IMG / negative vacuum forming</td>
<td>TP LPM2</td>
</tr>
<tr>
<td>Press forming</td>
<td>O</td>
<td>++ + ++ + 0 PP foam, improved VF performance and IMG, T_{24h} = 105°C</td>
</tr>
<tr>
<td>Door roll upper (~105°C)</td>
<td>LPM / LPIC</td>
<td>TL (LV)**</td>
</tr>
<tr>
<td>Door panel* (~100°C)</td>
<td>LPM / LPIC</td>
<td>TLA (LV)**</td>
</tr>
<tr>
<td>Arm rest (~100°C)</td>
<td>LPM / LPIC</td>
<td>TP VF</td>
</tr>
<tr>
<td>Dashboard (~120°C)</td>
<td>LPM / LPIC</td>
<td>NA (LV)**</td>
</tr>
</tbody>
</table>

++ Best practice – recommended and used in serial applications  
+ Recommended and used in serial applications  
O Testing recommended  
− Not recommended  

T_{24h} Temperature stability during heat aging 24 h, shrinkage max. 5%  
* For IMG/negative vacuum forming always use recommendations given for dashboard, regardless of the actual application or part  
** LV = low volatile, foams with optimised emission behaviour acc. to VDA 278 (2011)  

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