H-Liner® S1
Self-lubricating polymer bushings

These bushings, manufactured from a friction liner applied on a glass fiber structure, have excellent friction properties and improved wear resistance without external lubrication even on high loads.

Tolerances:
- Housing: H7-H8
- Shaft: h7-h8

Mating pins:
- Hardness ≥ 400 HB
- Roughness: 0.2 μm ≤ Ra ≤ 0.8 μm

Applications:
- Power lift truck
- Telescopic handlers
- Aircraft handling system
- ….

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>H-Liner® S1</th>
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</thead>
<tbody>
<tr>
<td>Dynamic contact pressure (Max)</td>
<td>140 MPa</td>
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<tr>
<td>Static contact pressure (Max)</td>
<td>400 MPa</td>
</tr>
<tr>
<td>Velocity (Max)</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Friction coefficient</td>
<td>0.03 to 0.08</td>
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<tr>
<td>Temperature (Max)</td>
<td>-40 °C to +160 °C</td>
</tr>
<tr>
<td>Linear expansion coefficient</td>
<td>7 E-6</td>
</tr>
<tr>
<td>Water absorption (24h)</td>
<td>0.16 %</td>
</tr>
</tbody>
</table>

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