Vacuum impregnation for electronic components

Reliable Sealing Results through High-Quality Impregnation

Henkel is a world-leading supplier of impregnation products and services. With a comprehensive range of proven, innovative solutions for sealing electronic components, we enable our customers to eliminate porosities and prevent leakage, meeting in full their process needs and the associated industry challenges.
The industry challenge
High-quality electronic components play a vital role in the automotive industry. The reliability and safety imperatives encountered by today’s vehicle manufacturers mean that all components have to be fully sealed against fluids, gases and other external influences. The industry also finds itself under constant pressure to reduce costs, increase productivity and meet environmental regulations.

Our solutions
Henkel’s impregnation products and services are designed to provide superior quality in sealing leak paths between metal and plastic materials in electronic components.

LOCTITE High-Performance Impregnation Products

<table>
<thead>
<tr>
<th>LIS</th>
<th>Chemical type</th>
<th>Cure method</th>
<th>Appearance</th>
<th>Viscosity 23 °C, mPa.s</th>
<th>Chemical resistance</th>
<th>Temperature resistance</th>
<th>Resin recycling</th>
<th>Application area</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCTITE IS 5100</td>
<td>Methacrylate</td>
<td>Anaerobic</td>
<td>Clear, fluorescent</td>
<td>5 – 30</td>
<td>Excellent</td>
<td>-54°C to +177°C</td>
<td>No</td>
<td>Electronics</td>
</tr>
<tr>
<td>LOCTITE IS 5110</td>
<td>Methacrylate</td>
<td>Anaerobic</td>
<td>Clear, fluorescent</td>
<td>36 – 66 at 25°C</td>
<td>Excellent</td>
<td>+205°C</td>
<td>No</td>
<td>Electronics</td>
</tr>
<tr>
<td>LOCTITE IS AT</td>
<td>Methacrylate</td>
<td>Anaerobic</td>
<td>Clear, fluorescent</td>
<td>5 – 15</td>
<td>Excellent</td>
<td>+177°C</td>
<td>No</td>
<td>Electronics</td>
</tr>
</tbody>
</table>

Process optimization:
› Improved quality and better performance thanks to our best-in-class product portfolio and high-speed impregnation service on site or close by
› Exceptional sealing quality thanks to clean, operationally efficient facilities
› Individual validation testing and on-site service personnel ensure tailored product and service concepts

Cost reduction:
› Lower overall costs through reducing scrappage caused by leak paths and other structural defects

Sustainability:
› Improved ecological footprint through an on-site impregnation center that reduces transportation costs

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The data contained herein are intended as reference only. Please contact Henkel AG & Co. KGaA for assistance and recommendation on specifications for these products.

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