ENCAPSULATION & POTTING RESINS

ROHS COMPLIANT
SOLVENT FREE
HALOGEN FREE
ADAPTABLE SYSTEMS
High Tech Resins
for Innovative Industries

Our resin formulations satisfy the most demanding requirements of potting, encapsulation and casting applications in numerous industries, including electronic devices, automotive and aerospace. Resins for capacitors, relays, transformers, sensors, electronic boards, coils, electronic devices, filters.

Our resin systems can withstand the high temperatures associated with lead-free soldering processes. Their purity is combined with excellent mechanical and chemical stability, minimizing contamination and maximizing safety during the handling of sensitive electronic components.

Axon Technologies systems are designed to efficiently integrate into your industrial application process.

Available Systems:

- Epoxy and polyurethane
- 100% solvent-free
- Customized processability
- Superior wear resistance
- High purity
- Mechanical strength
- Flame retardant resins
- Dielectric properties
- Excellent dimensional stability
- Chemical & environmental resistance
- Excellent temperature performance
- Thermal shock resistance
- "Re-entrant/dig-outable" resins
- Thermal conductivity

All our resins can be adapted to your requirements. All products are composed of two parts and can be cured at room temperature.

Polyurethane Resins

Flexible:

RE 11263/RE 1110
Very flexible polyurethane which avoids mechanical stress on sensitive components. High resistance to moisture and thermal shock. Very low dielectric constant.

RE 11501A/RE 1020
UL 94: V0 certified. UL 746B: RTI 120 °C. Low stress on embedded components. The exceptional combination of a soft PU makes this resin formulation ideal for avoiding mechanical stress on components. Choice of three different.

RE 11600/RE 1020
Fast processing due to rapid cure speed. Low viscosity. Fills intricate parts void-free. Low stress on embedded components. Allows flexible processing: injection moulding or machining. Excellent electrical properties over a wide range of environmental conditions.

RE 11700/RE 1060
Flexible with high transparency and UV resistance. Low viscosity and compliant with regulation. Dedicated for the inclusion of LEDs.

RE 11880/RE 1020
High temperature resistance. Low moisture absorption. Low viscosity. Excellent mechanical, thermal and chemical resistance properties.
**Polyurethane Resins**

**SEMI-RIGID:**

**RE 12461/RE 1010**

**RE 12551/RE 1020**
UL 94: V0 certified. Good electrical heat dissipation and thermal conductivity. Excellent mechanical, thermal and chemical resistance properties (130 °C). Choice of two different pot lives.

**RE 12560/RE 1020**
General purpose resin. Ease of processing. Low viscosity. Can be used in processing where manual application is required. Choice of three different pot lives.

**POLYURETHANE RESINS**

**RIGID:**

**RE 12800/RE 1020**

**RE 12885/RE 1030**

**Epoxy Resins**

**FLEXIBLE:**

**RE 22801/RE 2120**

**RE 22801/RE 2050**

**RE 22891/RE 2030**
### Selector Guide

#### Polyurethane Resins

<table>
<thead>
<tr>
<th>Product</th>
<th>Color</th>
<th>Typical applications</th>
<th>Shore hardness</th>
<th>Viscosity mPa·s at 25 °C</th>
<th>Pot life (min)*</th>
<th>Density g/cm³</th>
<th>Mix ratio (weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE 11263</td>
<td></td>
<td>Protection of very brittle electronic components. Sensors. Antennas.</td>
<td>26 A</td>
<td>1.700</td>
<td>12</td>
<td>0.98</td>
<td>100:19</td>
</tr>
<tr>
<td>RE 11110</td>
<td></td>
<td>Protection of electronic components requiring fire retardant and humidity resistance properties.</td>
<td>45 A</td>
<td>2.100</td>
<td>50</td>
<td>1.28</td>
<td>100:10</td>
</tr>
<tr>
<td>RE 11410</td>
<td></td>
<td>Sensitive electronic components requiring UL 94 V0. Sensors, printed circuit boards. UL 746B: RTI approved 120°C.</td>
<td>55 A</td>
<td>2.400</td>
<td>30/60</td>
<td>1.29</td>
<td>100:10</td>
</tr>
<tr>
<td>RE 10110</td>
<td></td>
<td>Cable connectors and wiring harnesses. Electronic components for the automotive industry.</td>
<td>60 A</td>
<td>500</td>
<td>4</td>
<td>1.14</td>
<td>100:30</td>
</tr>
<tr>
<td>RE 11633</td>
<td></td>
<td>Underwater applications such as pumps. Applications for electronic components used in a wet environment or immersion.</td>
<td>63 A</td>
<td>2.500</td>
<td>55</td>
<td>0.97</td>
<td>100:26</td>
</tr>
<tr>
<td>RE 11700</td>
<td></td>
<td>Transparent and UV resistant material for LED and lighting encapsulation.</td>
<td>70 A</td>
<td>250</td>
<td>30</td>
<td>1.13</td>
<td>100:100</td>
</tr>
<tr>
<td>RE 11820</td>
<td></td>
<td>Radio transmitters. Applications for electronic components used in an environment where high moisture resistance is desired.</td>
<td>82 A</td>
<td>4.500</td>
<td>40/40</td>
<td>1.10</td>
<td>100:25</td>
</tr>
<tr>
<td>RE 11880</td>
<td></td>
<td>Ideal for automotive applications requiring heat resistance. Sensors. Electronic devices.</td>
<td>88 A</td>
<td>1.500</td>
<td>40</td>
<td>1.41</td>
<td>100:20</td>
</tr>
<tr>
<td>RE 12461</td>
<td></td>
<td>General purposes. Ideal for intricate parts requiring UL 94 V0. Railways fire retardants approved.</td>
<td>46 D</td>
<td>1.100</td>
<td>10/30/40/60</td>
<td>1.55</td>
<td>100:16</td>
</tr>
<tr>
<td>RE 12500</td>
<td></td>
<td>All industrial applications requiring a cost-effective product.</td>
<td>50 D</td>
<td>2.600</td>
<td>30</td>
<td>1.66</td>
<td>100:10</td>
</tr>
<tr>
<td>RE 12531</td>
<td></td>
<td>Low and medium voltage transformers. Converters. UL 746B: RTI approved 150°C.</td>
<td>53 D</td>
<td>1.650</td>
<td>22</td>
<td>1.57</td>
<td>100:14</td>
</tr>
<tr>
<td>RE 12551</td>
<td></td>
<td>Small transformers. Electronic cards. Relays. Electronic filters. Applications requiring a fire resistance.</td>
<td>55 D</td>
<td>2.400</td>
<td>30/60</td>
<td>1.55</td>
<td>100:14</td>
</tr>
<tr>
<td>RE 12560</td>
<td></td>
<td>Small transformers. Electronic cards. Relays. Electronic filters. Applications requiring reasonable resistance to humidity.</td>
<td>56 D</td>
<td>1.400</td>
<td>25/30/50</td>
<td>1.33</td>
<td>100:25</td>
</tr>
<tr>
<td>RE 12602</td>
<td></td>
<td>Sensitive potting applications where leakages must be avoided, for example cable connections.</td>
<td>60 D</td>
<td>thixo</td>
<td>7</td>
<td>1.30</td>
<td>127:100</td>
</tr>
<tr>
<td>RE 12800</td>
<td></td>
<td>Applications requiring long manipulation time, for example manual applications. Capacitors. Transformers. Relays.</td>
<td>80 D</td>
<td>1.200</td>
<td>65</td>
<td>1.38</td>
<td>100:28</td>
</tr>
<tr>
<td>RE 12840</td>
<td></td>
<td>Multipurpose for all kinds of transformers and capacitors.</td>
<td>86 D</td>
<td>800</td>
<td>30</td>
<td>1.58</td>
<td>100:30</td>
</tr>
<tr>
<td>RE 12851</td>
<td></td>
<td>Transformers and capacitors requiring fire retardant properties.</td>
<td>85 D</td>
<td>3.800</td>
<td>10</td>
<td>1.63</td>
<td>100:20</td>
</tr>
<tr>
<td>RE 12885</td>
<td></td>
<td>Transformers, Capacitors operating in severe industrial environments (temperature, moisture).</td>
<td>88 D</td>
<td>2.000</td>
<td>13/30/60</td>
<td>1.53</td>
<td>100:40</td>
</tr>
</tbody>
</table>

#### Epoxy Resins

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</tr>
</thead>
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<tr>
<td>RE 22801</td>
<td></td>
<td>Sensitive electronics that require resistance to thermal shock. PCB components.</td>
<td>62 D</td>
<td>3.500</td>
<td>180</td>
<td>1.47</td>
<td>100:20</td>
</tr>
<tr>
<td>RE 22802</td>
<td></td>
<td>Multipurpose: Capacitors, relays, coils, bobbins, industrial applications requiring an extremely resistant resin.</td>
<td>80 D</td>
<td>4.200</td>
<td>50</td>
<td>1.53</td>
<td>100:11</td>
</tr>
<tr>
<td>RE 22803</td>
<td></td>
<td>Multipurpose: Electric motors, transformers, coils, relays. High temperature resistance +150°C.</td>
<td>88 D</td>
<td>3.000</td>
<td>200</td>
<td>1.49</td>
<td>100:12</td>
</tr>
</tbody>
</table>

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**Our Global Presence:**
- 6 production sites with research centers worldwide
- 12 subsidiaries around the world
- More than 60 international distributors
- Global support guaranteed

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