Products for mold making and composite manufacturing
Proven solutions for
BODO MÖLLER CHEMIE is an expert for composite and tooling materials. We offer application-specific solutions for all common manufacturing processes in industries such as automotive, bus, truck, rail, aerospace, wind energy, marine, sports and leisure.

The comprehensive range of products includes formulated epoxy resin systems, tooling boards, mold making silicones, casting resins, laminating resins as well as gelcoats and coupling layers.
Product selection

Formulated composite systems
RenLam® Formulated resin systems
Araldite® Formulated resin systems

Specialties for manufacturers & formulators
Araldite® Epoxy base resins
Araldur® Epoxy base hardener
Kerimid® Bismaleimides
Matrimid® Polyimides and bismaleimides
Rhodeftal® Polyamidoimides, polyamideimides, polyamideimidides
Tactix® Bisphenol-A epoxy resins

Tooling boards
UREOL® Epoxy tooling boards
UREOL® Polyurethane tooling boards

Silicone mold making materials
Bluesil™ Silicone RTVs (2C)
Silastic™ High strength RTVs

Casting resins
RenCast® Epoxy casting resins (2C)
RenCast® Polyurethane fast casting resins (2C)

Auxiliaries for tooling & mold making
Araldite® Color pastes
Araldite® Fillers
Ren Lease® Wax and silicone based release agents

Gelcoats & coupling layers
RenGel™ Epoxy gelcoats and coupling layers

UREOL®
by BODO MÖLLER CHEMIE

Detailed information about our original UREOL® tooling boards can be found in this separate brochure.
### Formulated composite systems

<table>
<thead>
<tr>
<th>Product</th>
<th>Pot life at 25 °C</th>
<th>Viscosity at 25 °C</th>
<th>Gel time at 80 °C</th>
<th>Tg Value</th>
<th>Flexural elongation</th>
</tr>
</thead>
<tbody>
<tr>
<td>RenLam® M1 / HY 956</td>
<td>30 min</td>
<td>1200 mPa’s</td>
<td>5 min</td>
<td>60 °C</td>
<td>12 %</td>
</tr>
<tr>
<td>Araldite® XB 3585 / XB 3486</td>
<td>530 min</td>
<td>550 mPa’s</td>
<td>35 min</td>
<td>90 °C</td>
<td>10 %</td>
</tr>
<tr>
<td>Araldite® LY 5052 / 5052</td>
<td>140 min</td>
<td>600 mPa’s</td>
<td>15 min</td>
<td>120 °C</td>
<td>11 %</td>
</tr>
<tr>
<td>RenLam® LY 113 / HY 98</td>
<td>100 min</td>
<td>300 mPa’s</td>
<td>20 min</td>
<td>125 °C</td>
<td>73 %</td>
</tr>
<tr>
<td>Araldite® LY 556/ 22962</td>
<td>150 min</td>
<td>1900 mPa’s</td>
<td>20 min</td>
<td>150 °C</td>
<td>9 %</td>
</tr>
<tr>
<td>Araldite® LY 556 / 917-1 / DY 070</td>
<td>100 h</td>
<td>750 mPa’s</td>
<td>150 min</td>
<td>150 °C</td>
<td>7 %</td>
</tr>
<tr>
<td>Araldite® LY 556 / HY 906 / DY 070</td>
<td>52 h</td>
<td>2000 mPa’s</td>
<td>240 min</td>
<td>170 °C</td>
<td>5,5 %</td>
</tr>
<tr>
<td>Araldite® LY 556 / XB 3473</td>
<td>35 h</td>
<td>5600 mPa’s</td>
<td>&gt;600 min</td>
<td>190 °C</td>
<td>6 %</td>
</tr>
<tr>
<td>Araldite® CY 179-1 / 917-1 / DY 070</td>
<td>48 h</td>
<td>150 mPa’s</td>
<td>70 min</td>
<td>200 °C</td>
<td>3 %</td>
</tr>
<tr>
<td>Araldite® XB 9721 / XB 3473</td>
<td>85 h</td>
<td>15500 mPa’s</td>
<td>&gt; 600 min</td>
<td>235 °C</td>
<td>4 %</td>
</tr>
</tbody>
</table>

### Silicone mold making materials

<table>
<thead>
<tr>
<th>Product</th>
<th>Pot life at 25 °C</th>
<th>Viscosity at 25 °C</th>
<th>Demolding time at 25 °C</th>
<th>Shore A</th>
<th>Elongation at break</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluesil™ RTV 3428 A&amp;B</td>
<td>60 min</td>
<td>13000 mPa’s</td>
<td>16 h</td>
<td>28</td>
<td>600 %</td>
</tr>
<tr>
<td>Silastic™ RTV-4234-T-4</td>
<td>90 min</td>
<td>35000 mPa’s</td>
<td>12 h</td>
<td>40</td>
<td>400 %</td>
</tr>
</tbody>
</table>

### Casting resins

<table>
<thead>
<tr>
<th>Product</th>
<th>Pot life at 25 °C</th>
<th>Viscosity at 25 °C</th>
<th>Demolding time at 25 °C</th>
<th>Thermal stability</th>
<th>Linear shrinkage</th>
</tr>
</thead>
<tbody>
<tr>
<td>RenCast® CW 2215 / HY 5161</td>
<td>Yellow</td>
<td>45 min</td>
<td>5000 mPa’s</td>
<td>60 °C</td>
<td>0,7 mm/m</td>
</tr>
<tr>
<td>RenCast® CW 2418-1 / HY 5160</td>
<td>Black</td>
<td>120 min</td>
<td>4000 mPa’s</td>
<td>55 °C</td>
<td>0,1 mm/m</td>
</tr>
<tr>
<td>RenCast® CW 47 / HY 33</td>
<td>Grey</td>
<td>240 min</td>
<td>17000 mPa’s</td>
<td>210 °C</td>
<td>1,0 mm/m</td>
</tr>
<tr>
<td>RenCast® FC 52 / 53 ISO – FC 53 Poly(1)</td>
<td>Beige</td>
<td>4 min</td>
<td>80 mPa’s</td>
<td>35 min</td>
<td>85 °C</td>
</tr>
</tbody>
</table>

### Gelcoats & coupling layers

<table>
<thead>
<tr>
<th>Product</th>
<th>Pot life at 25 °C</th>
<th>Demolding time at 25 °C</th>
<th>Thermal stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>RenGel® SW 404 / HY 2404</td>
<td>Blue</td>
<td>15 min</td>
<td>80 °C</td>
</tr>
<tr>
<td>RenGel® SW 18 / HY 2404</td>
<td>Green</td>
<td>10 min</td>
<td>85 °C</td>
</tr>
<tr>
<td>RenGel® SV 410 / HY 2404</td>
<td>White</td>
<td>25 min</td>
<td>70 °C</td>
</tr>
</tbody>
</table>

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(1) Compatible with fillers

*Do you need support in selecting a suitable product for your application?* Please contact our technical consultants for detailed product information, samples and process advice. We will be pleased to support you.
With our Adhesive Competence Center, we offer full service in all matters related to adhesive application technology – from product selection all the way to product validation, process simulation and engineering data.

The Adhesive Competence Center is certified for the designing of bonding joints according to DIN 2304 S1 and DIN 6701-2 A1 and our Adhesive Laboratory has a Competence Approval for DIN 2304 S1 and DIN 6701-2 A1. All measurements are carried out in accordance with international DIN, EN and ISO standards.

**Determination of construction data**
- Long-term laboratory tests to determine the technical properties of adhesives as a basis for the calculation of adhesive joints

**Design & construction of adhesive joints**
- Calculation of structural and elastic adhesive joints
- Preparation of construction drawings

**Process design, process testing & troubleshooting**
- Support in setting up bonding processes
- Examination of existing bonding processes, fault analysis
- Optimization of bonding processes

**Laboratory tests**
- Testing of adhesive joints according to all common test methods
- Reference measurements
- Diagnosis of adhesion problems on the substrate

**Implementation & auditing according to DIN 6701/DIN 2304**
- Support for the qualification of production sites
- Preparatory audits, valid as independent pre-audit

**Seminars & training**
- Customer-specific seminars and laboratory trainings
- Trainings for production, quality control, construction
QUALITY & SAFETY

ISO 9001  Quality management
ISO 14001  Environmental management
ISO 45001  Occupational health & safety

EN 9120  Distribution and repacking for aviation industry
DIN 6701  Adhesive bonding of railway vehicles (laboratory)
DIN 2304  Quality requirements for adhesive bonding processes (laboratory)

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