BODO MÖLLER CHEMIE

Engineer chemistry

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, fiber reinforcements, tooling boards, mold making silicones, casting resins, laminating resins as well as gelcoats and coupling layers.

all major applications

Product selection

Formulated composite systems

RenLam® Formulated resin systems
Araldite® Formulated resin systems

Specialties for manufacturers & formulators

Araldite® Epoxy base resins
Aradur® Epoxy base hardener
BTDA® Dianhydride hardeners
Kerimid® Bismaleimides
Matrimid® Polyimides and bismaleimides
Rhodeftal® Polyamidoimides, polyamideimides
Tactix® Bisphenol-A epoxy resins

Fiber reinforcements

Coated yarns
Glass and carbon fiber fabrics and scrims
Glass and carbon thermoplastic prepregs

Tooling boards

UREOL® Epoxy tooling boards
UREOL® Polyurethane tooling boards

Silicone mold making materials

Bluesil™ Silicone RTVs (2C)
Silastic™ High strength RTVs

Casting resins

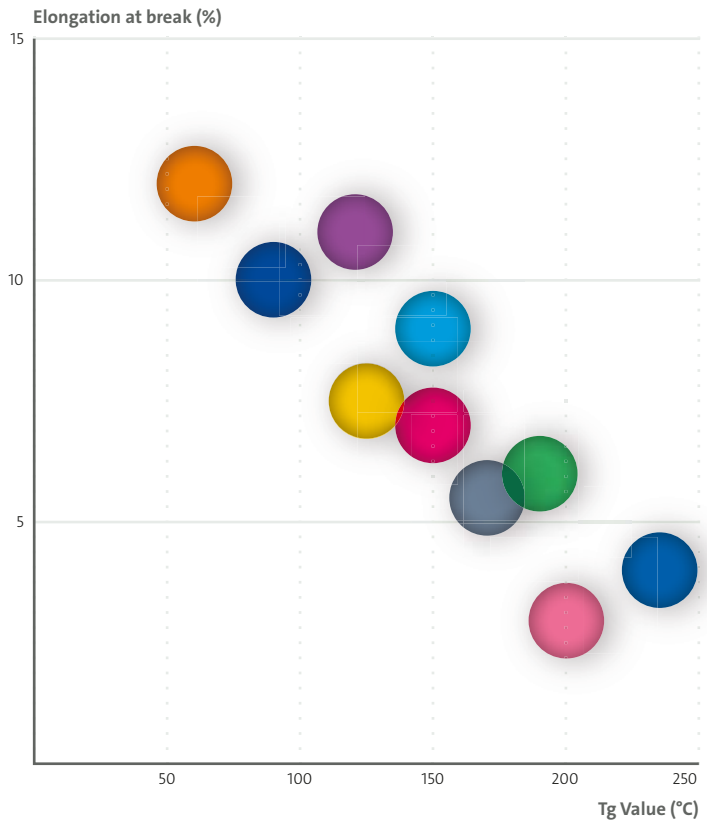
RenCast® Epoxy casting resins (2C)
RenCast® Polyurethane fast casting resins (2C)

Auxiliaries for tooling & mold making

Araldite® Color pastes
Araldite® Fillers
RenLease® Wax and silicone based release agents

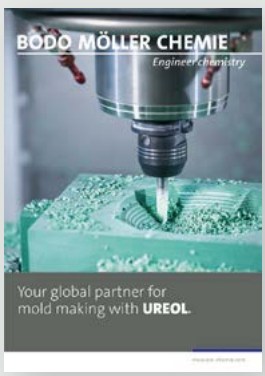
Gelcoats & coupling layers

RenGel™ Epoxy gelcoats and coupling layers

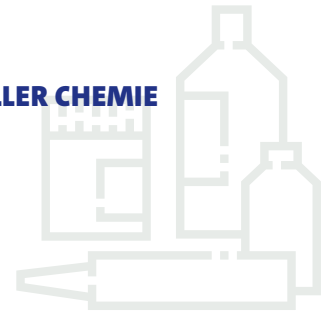


UREOL®
by BODO MÖLLER CHEMIE

Detailed information about our original **UREOL® tooling boards** can be found in this separate brochure.



Not all products are available in all countries. Please contact our sales representatives for more information.



Formulated composite systems

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

Silicone mold making materials

	Pot life at 25 °C	Viscosity at 25 °C	Demolding time at 25 °C	Shore A	Elongation at break
Bluesil™ RTV 3428 A&B	60 min	13000 mPa*s	16 h	28	600 %
Silastic™ RTV-4234-T-4	90 min	35000 mPa*s	12 h	40	400 %

Casting resins

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

(1) Compatible with fillers

Gelcoats & coupling layers

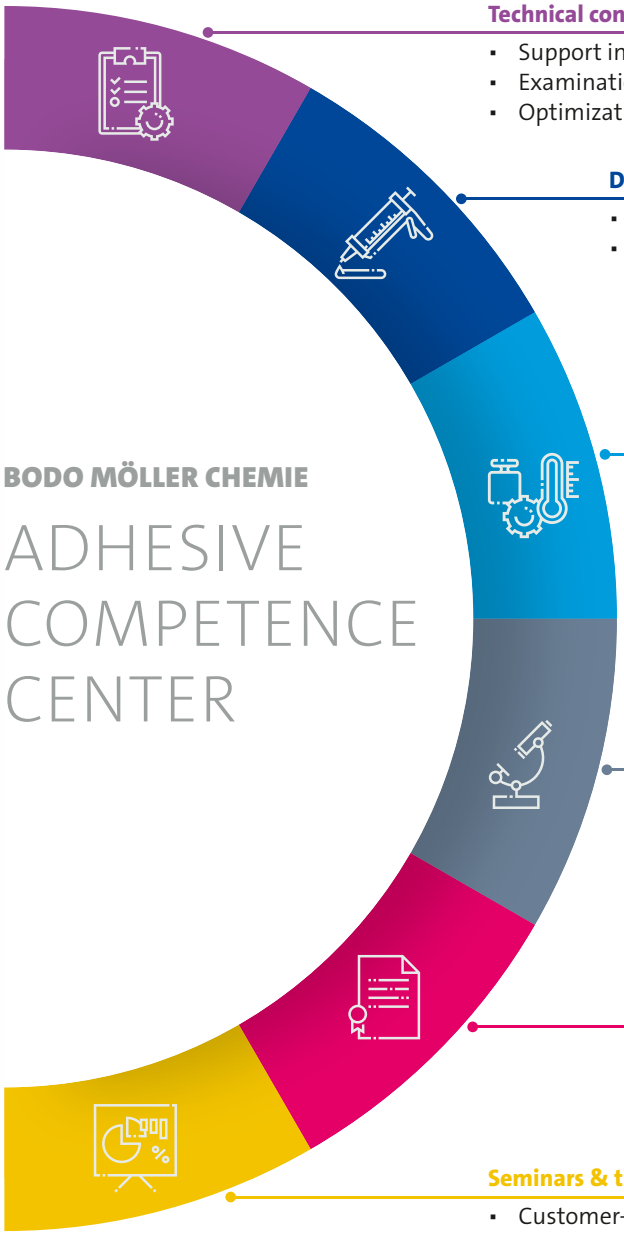
		Pot life at 25 °C	Demolding time at 25 °C	Thermal stability
RenGel® SW 404 / HY 2404	Blue	15 min	7 h	80 °C
RenGel® SW 18 / HY 2404	Green	10 min	12 h	85 °C
RenGel® SV 410 / HY 2404	White	25 min	12 h	70 °C

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.

Application technology center

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.



Technical consulting

- Support in setting up bonding processes
- Examination of existing bonding processes, fault analysis
- Optimization of bonding processes

Design & construction of adhesive joints

- Calculation of structural and elastic adhesive joints (FEM)
- Preparation of construction drawings

Determination of construction data

- Translation of chemical data into engineering and electromagnetic data
- Long-term laboratory tests to determine the technical properties of adhesives

Laboratory testing

- 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
- Official Fraunhofer IFAM training center for adhesives (EAB & EAS)

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)

AN EXCERPT OF OUR LONGTIME PARTNERS

CABB
YOUR PARTNER IN FINE CHEMISTRY

DowAksa

DOW

Elkem

HUNTSMAN
Enriching lives through innovation

porcherindustries

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State 02/2024

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