

# material **HUB**



In a nutshell:

[Material Hub](#) is an open and central materials research platform.

It enables researchers, engineers as well as artists and craftsmen to find materials, semi-finished products, intermediate goods and related expertise, thus strengthening the network between industry and research.

Searches:

In addition to overview searches, e.g. on specific material classes, you can find and compare materials based on desired properties and potential use cases.

A uniform search mask as well as semantic enrichment and data integration running in the background ensure that you find the required information quickly.

Find the right partners from industry and research. Material Hub offers you the opportunity to get in touch with material experts in a targeted and fast matter.

The Project:

Material Hub was developed by the Saxon State and University Library Dresden (SLUB) within an ERDF funded project (01/2017 - 09/2021). Now funded by the DFG as part of the FID Materials Science, Material Hub is growing steadily. Amongst others the SLUB is supported by its FID cooperation partner TIB Hannover, the Mechanical Engineering Industry Association (Verband Deutscher Maschinen- und Anlagenbau – VDMA) and the TU Dresden.

Win-Win-Situation:

With Material Hub, users who are looking for engineering materials have a centralised and time-saving opportunity to conduct targeted searches and establish direct contacts with material experts.

Producers, researchers and suppliers are given the opportunity to present themselves and their innovative materials to the market.

Next Steps:

Present your materials and expertises in the Material Hub!

After [registering](#), you can upload your data to the Material Hub in a structured format (e.g. XLS, CSV, XML or JSON). We are happy to support you on this!

If you would like to integrate your API instead, please contact us. You determine the range of your database export yourself. We will then integrate your data into the platform.

Cooperation:

We offer you the opportunity to present your materials, expertise and research results in the [Material Hub](#) free of charge. We will gladly support you!

Come and talk to us: We look forward to meeting you!

## MATERIALS

In the Material Hub, you can easily find information sources from industry and research on a wide range of material classes free of charge. Once you have found the right material for your application, you can contact the company or research institute directly.

[extended search](#)

materials



material classes



usecases



companies and insti...



regulations

## Material Categories

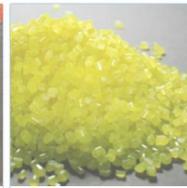
### Exemplary material classes



metals



ceramics



plastics

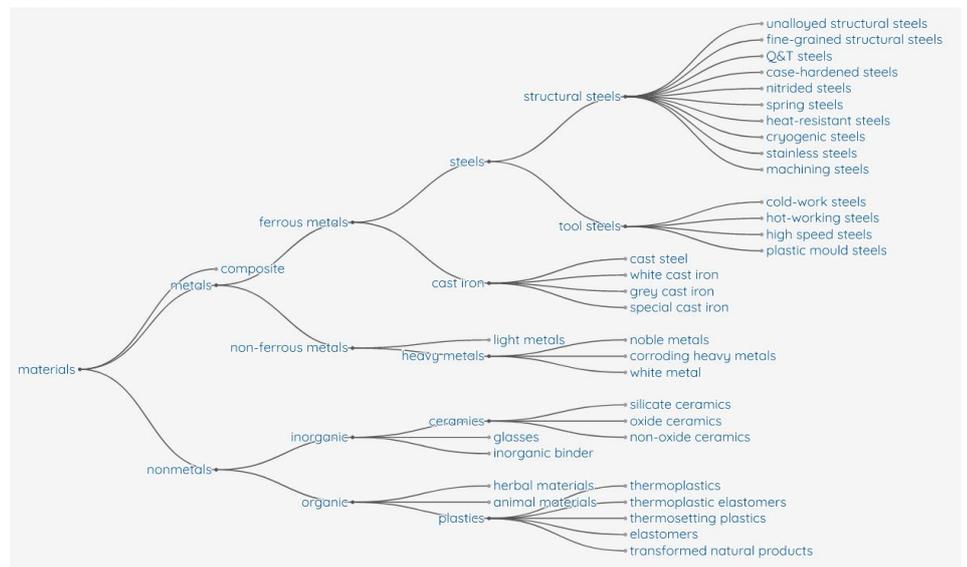


elastomers



composite

### Material classification



## Application Areas



food contact



mechanical engi...



mechanics



chemical industry



conveyor technol...



electrics



seals



construction



medicine



packaging



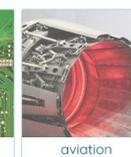
bearings



automotive indus...



electronics



aviation

## MATERIALS

plastics

extended search

Group results by organization  Results per Page 20 Sort By Relevance

**CATEGORY**

Filter by category

- plastics 735
- nonmetals 735
- organic 735
- Synthetisch 735
- thermoplastics 11
- Kunststoffbeschichtung 56
- show 3 more

**APPLICATION AREAS**

Filter by Application areas

- food contact 85
- mechanical engineering 133
- mechanics 11
- chemical industry 100
- conveyor technology 42
- construction 90
- show 94 more

**CERTIFICATE**

Filter by certificate

- Verordnung (EG) 1935/2004 44
- FDA 29
- FDA 21 CFR 177 26
- BfR Empfehlung LI 24
- FDA CFR 21 23
- European Food 1935/2004 17
- show 69 more

**CERTIFICATE BY COUNTRY**

Filter by Certificate by co...

- USA 24
- EU 20
- UK 10
- undefined 7
- China 6
- F 6
- show 4 more

**PRODUCER**

Filter by producer

- Röchling Engineering Plastics SE & Co. KG 144
- Röchling Sustoplast SE & Co. KG 84
- Röchling Engineering Plastics 72
- Mitsubishi Chemical Advanced Materials 67
- Rhenotherm Kunststoffbeschichtungs GmbH 56
- Wefapress Beck + Co. GmbH 51
- show 9 more

**SUPPLIER**

- Kahmann & Ellerbrock 99

**DATA PROVIDED BY**

Filter by data provided by

- Röchling Engineering Plastics SE & Co. KG 355
- Kahmann & Ellerbrock 99
- Mitsubishi Chemical Advanced Materials 67
- Rhenotherm Kunststoffbeschichtungs GmbH 56
- Wefapress Beck + Co. GmbH 51
- Centroplast Engineering Plastics GmbH 46
- show 7 more

### Search Results

1-20 of 735

Material Name	Category	Tensile stress at yie...	Density	Actions
Foamlite® P Röchling Engineering Plastics SE & Co. KG	category Kunststoffe	18 MPa	0.65 g/cm³	
Foamlite® P 653 UV Röchling Engineering Plastics SE & Co. KG	category Kunststoffe	18 MPa	0.65 g/cm³	
Lubx® AST black Röchling Engineering Plastics SE & Co. KG	category Kunststoffe	20 MPa	0.94 g/cm³	
SUSTAKON® Röchling Sustoplast SE & Co. KG	category Kunststoffe	70 MPa	1.25 g/cm³	
SUSTAMID® 6 ESD 60 Röchling Sustoplast SE & Co. KG	category Kunststoffe	72 MPa	1.27 g/cm³	
SUSTAMID® 6 GC Röchling Sustoplast SE & Co. KG	category Kunststoffe	80 MPa	1.14 g/cm³	
SUSTAMID® 6 MO Röchling Sustoplast SE & Co. KG	category Kunststoffe	80 MPa	1.14 g/cm³	
SUSTAMID® 6 Röchling Sustoplast SE & Co. KG	category Kunststoffe	80 MPa	1.14 g/cm³	
SUSTAMID® 12 Röchling Sustoplast SE & Co. KG	category Kunststoffe	50 MPa	1.02 g/cm³	
SUSTAMID® 46 Röchling Sustoplast SE & Co. KG	category Kunststoffe	95 MPa	1.18 g/cm³	
SUSTAMID® 66 Röchling Sustoplast SE & Co. KG	category Kunststoffe	85 MPa	1.15 g/cm³	
SUSTAMID® 12 GF 30 Röchling Sustoplast SE & Co. KG	category Kunststoffe	60 MPa	1.25 g/cm³	
SUSTAMID® 12 MO Röchling Sustoplast SE & Co. KG	category Kunststoffe	50 MPa	1.02 g/cm³	
Lubx® S extruded Röchling Engineering Plastics SE & Co. KG	category Kunststoffe	19 MPa	0.93 g/cm³	
SUSTAMID® 6 FG Röchling Sustoplast SE & Co. KG	category Kunststoffe	80 MPa	1.14 g/cm³	
SUSTAMID® 6 FR Röchling Sustoplast SE & Co. KG	category Kunststoffe	82 MPa	1.17 g/cm³	
SUSTAMID® 6 GC MO Röchling Sustoplast SE & Co. KG	category Kunststoffe	80 MPa	1.14 g/cm³	
SUSTAMID® 6 GF 30 Röchling Sustoplast SE & Co. KG	category Kunststoffe	100 MPa	1.35 g/cm³	
SUSTAMID® 66 FG Röchling Sustoplast SE & Co. KG	category Kunststoffe	85 MPa	1.15 g/cm³	

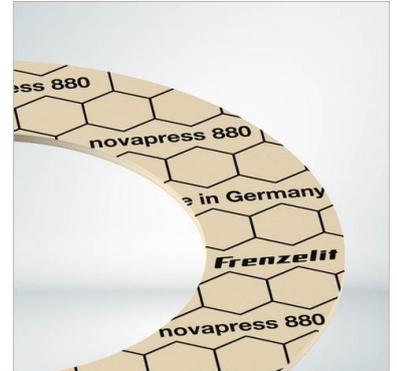
1 2 3 4 5 6


[extended search](#)

## novapress® 880



Temperaturbeständiger hochflexibler Werkstoff auf Elastomer - Aramidfaser Basis für eine maximale Anwendungstemperatur bis 250°C. Die novapress Produktfamilie zeichnet sich aus durch eine sehr gute Elektroisolation gute Dämpfungseigenschaften sowie gute Medienbeständigkeit und exzellente Dichtigkeit. Dieser Werkstoff ist in Plattenform als auch in Rollenware verfügbar.



### category

nonmetals > organic > plastics > elastomers [Wikipedia](#)

### application area

Dichtungswerkstoff; Elektroisolation; Thermische Isolation; Batterietechnologie; Energiespeicherung; Brennstoffzellen; Lebensmittel F&B; Klimatechnik; Kältemittel

## Important Properties

**application temperature**  
-100 – 250 °C

**short-term application temperature**  
250 °C

## Physical Properties

Name	Value	Method
application temperature	-100 – 250 °C	-
cold compression value	12 %	<a href="#">DIN 28090-2, Dicke 0,50 mm</a>
cold recovery	6	<a href="#">DIN 28090-2, Dicke 0,50 mm</a>
compressibility	18 %	<a href="#">ASTM F 36 J</a>
density	1,3 g/cm <sup>3</sup>	<a href="#">DIN 28090-2</a>
hot creep	5 %	<a href="#">DIN 28090-2, Dicke 0,50 mm / 200 °C</a>
hot recovery	2	<a href="#">DIN 28090-2, 200 °C</a>
recovery	65 %	<a href="#">ASTM F 36 J</a>
residual stress	44 N/mm <sup>2</sup>	<a href="#">DIN 52913, Dicke 0,50 mm / 300 °C</a>
	34 N/mm <sup>2</sup>	<a href="#">DIN 52913, Dicke 1,00 mm / 300 °C</a>
	20 N/mm <sup>2</sup>	<a href="#">DIN 52913, Dicke 2,00 mm / 300 °C</a>
	12 N/mm <sup>2</sup>	<a href="#">DIN 52913, Dicke 3,00 mm / 300 °C</a>
short-term application temperature	250 °C	-
specific leakage rate	0,01 mg/(s*m)	<a href="#">DIN 3535-6</a>
tensile strength	6 MPa	<a href="#">DIN 52910, quer</a>
thickness increase	2 %	<a href="#">ASTM F 146, Öl IRM 903, 5 h / 150 °C</a>
	6 %	<a href="#">ASTM F 146, Fuel B, 5 h / 23 °C</a>
weight increase	6 %	<a href="#">ASTM F 146, Öl IRM 903, 5 h / 150 °C</a>

## Certificates

Regulation	Country	Part	Remark	Valid until	Certificate
BAM			konform		
<a href="#">Blow-out VDI 2200</a>			konform		
BS 7531 Grade X			konform		
DVGW			konform		
<a href="#">Verordnung (EG) 1935/2004</a>			konform		
<a href="#">FDA</a>			konform		
HTB DIN 30653			konform		
KTW Trinkwasser gemäß Elastomerleitlinie			konform		
<a href="#">TA Luft</a>			konform		
W 270			konform		

## Data Provided by Producer

Frenzelit GmbH

+49 9273 72-0

[Request via e-mail](#)

[Website](#)

Further details

Show the materials of Frenzelit GmbH



## Similar Materials

isoplan® 1000  
GREENLINE

Frenzelit GmbH

novamica® 100 REEL

Frenzelit GmbH

novamica® 200

Frenzelit GmbH

novamica® THERMEX

Frenzelit GmbH

novaphit® SSTC TA-L

Frenzelit GmbH

Select the material properties on the basis of which similar materials are to be identified. By adding further properties as well as adjusting the respective deviation, the result list can be influenced. A selection of the most similar materials is displayed here. To get the full list, press the "Show all results" button.

# CONTACT

Dipl.-Ing. Henriette Wiehl

Project Leader  
Saxon State and University Library  
Dresden (SLUB)  
Department IT  
Referat 2.2 – Metadata  
01054 Dresden

0351 4677 209

[henriette.wiehl@slub-dresden.de](mailto:henriette.wiehl@slub-dresden.de)

