

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.

Next Steps:

Directly start finding your materials on www.materialhub.de.

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



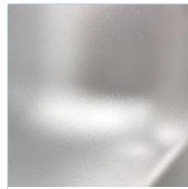
companies and insti...



regulations

Material Categories

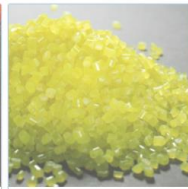
Exemplary material classes



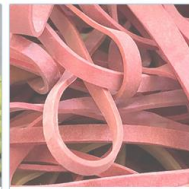
metals



ceramics



plastics

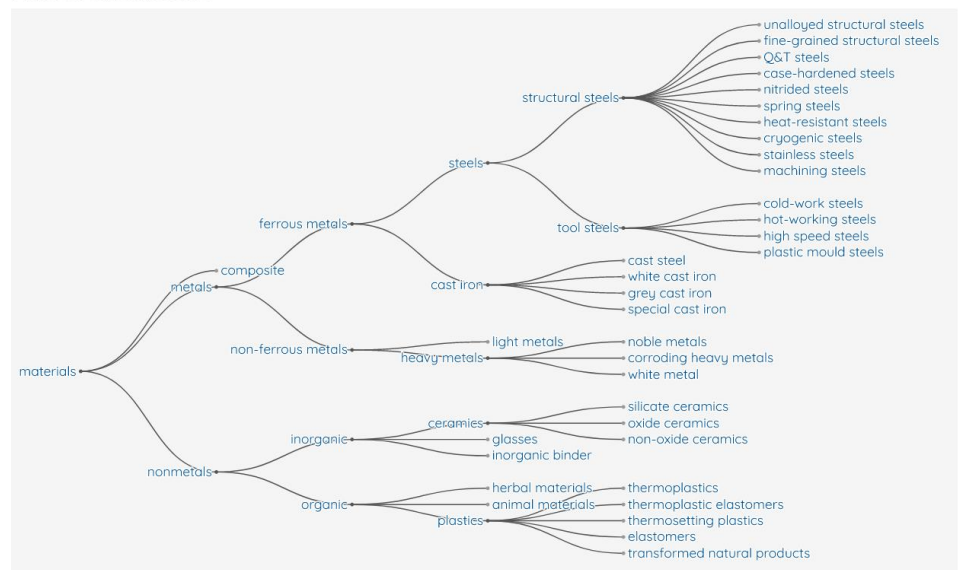


elastomers



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 Sort By

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 153
- 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

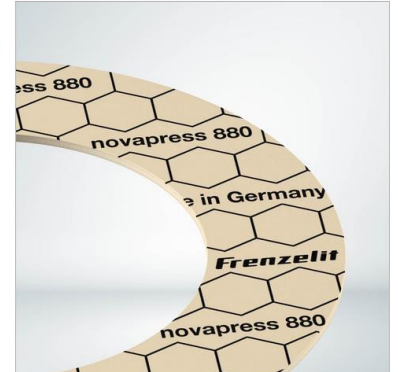
Material Name	Category	Tensile stress at yie...	Density	Manufacturer
Foamlite® P	Röchling Engineering Plastics SE & Co. KG	18 MPa	0.65 g/cm³	Röchling Engineering Plastics SE & Co. KG
Foamlite® P 653 UV	Röchling Engineering Plastics SE & Co. KG	18 MPa	0.65 g/cm³	Röchling Engineering Plastics SE & Co.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


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

Certificates

Regulation	Country	Part	Remark	Valid until	Certificate
BAM			konform		
Blow-out VDI 2200			konform		
BS 7531 Grade X			konform		
DVGW			konform		
Verordnung (EG) 1935/2004			konform		
FDA			konform		
HTB DIN 30653			konform		
KTW Trinkwasser gemäß Elastomerleitlinie			konform		
TA Luft			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	novamica® 100 REEL	novamica® 200	novamica® THERMEX	novaphit® SSTC TA-L
Frenzelit GmbH	Frenzelit GmbH	Frenzelit GmbH	Frenzelit GmbH	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

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