Property Search

Try these other methods of searching:

- Advanced Search - Allow searches on conditional property data, using multiple criteria.
- Polymer Film Search
- Lubricant Search

Choose a Material Category (Optional)

- Carbon (866 matls)
- Ceramic (10004 matls)
- Fluid (7562 matls)
- Metal (17052 matls)
- Other Engineering Material (8063 matls)
- Polymer (97635 matls)
- Pure Element (507 matls)

Submit the Query (Required)
Click on the 'Find' button below to submit the query.

FIND RESET

Choose up to 3 Material Properties
Set the range by entering the minimum and/or maximum values for each selected property.

Modulus of Elasticity (41250 matls)
Min: 0.1 Max: 0.5 Unit: GPa
Min: 7.50e-7 GPa
Max: 1200 GPa

Density (108227 matls)
Min: 0.1 Max: 1.5 Unit: g/cc
Min: 0.0000820 g/cc
Max: 22.6 g/cc

Poissons Ratio (7883 matls)
Min: 0.2 Max: 0.4 Unit:
Min: 0.00900
Max: 0.980

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Use Folder: My Folder 0/0 COMPARE MATERIALS

Select	Material Name	Modulus of Elasticity (GPa)	Density (g/cc)	Poissons Ratio
1	Overview of materials for Aluminum Alloy	0.0480 - 342	0.0160 - 3.63	0.230 - 0.360
2	Overview of materials for Copper Alloy	0.100 - 250	0.969 - 12.2	0.181 - 0.460
3	Overview of materials for Acrylic, Extruded	0.0420 - 3.30	0.942 - 1.19	0.370 - 0.430
4	Overview of materials for Epoxy Cure Resin	0.0207 - 215	0.860 - 2.60	0.350 - 0.420
5	Overview of materials for Epoxy Adhesive	0.0345 - 59.1	0.137 - 4.80	0.0200 - 0.680
6	Overview of materials for Thermoset Fluoroelastomer	0.0000800 - 0.140	0.900 - 3.80	0.370 - 0.510
7	Overview of materials for Nylon 6, Unreinforced	0.210 - 16.6	0.670 - 4.50	0.230

☐	8	Overview of materials for Nylon 6, Impact Grade	0.145 - 15.0	1.00 - 2.50	0.350 - 0.470
☐	9	Overview of materials for Nylon 6, 20% Glass Fiber Filled	0.0703 - 14.3	1.14 - 1.67	0.350 - 0.440
☐	10	Overview of materials for Nylon 66/6	0.210 - 4.10	1.03 - 1.54	0.400
☐	11	Overview of materials for Nylon 66, Heat Stabilized	0.0848 - 31.0	1.04 - 2.50	0.300 - 0.350
☐	12	Overview of materials for Nylon 66, 30% Glass Fiber Filled	0.0848 - 16.2	1.14 - 1.82	0.340 - 0.400
☐	13	Overview of materials for Nylon 66, 40% Mineral Filled	0.400 - 10.0	1.32 - 1.67	0.340 - 0.400
☐	14	Overview of materials for Nylon 610	0.350 - 27.6	0.930 - 3.80	0.340 - 0.460
☐	15	Overview of materials for Nylon 12	0.0400 - 100	0.00147 - 11.0	0.350 - 0.430
☐	16	Overview of materials for Polyetherimide (PEI)	0.00280 - 56.0	0.0500 - 1.90	0.300 - 0.440
☐	17	Overview of materials for Polyimide	0.107 - 46.9	0.00545 - 1.95	0.250 - 0.410
☐	18	Overview of materials for Polyimide, Thermoset Film	0.0410 - 10.8	1.39 - 2.08	0.340
☐	19	Overview of materials for Polyphthalamide (PPA)	0.270 - 102	1.10 - 3.80	0.290 - 0.410
☐	20	Overview of materials for Polyphthalamide (PPA), 30% Glass Fiber Reinforced	0.400 - 18.6	1.34 - 1.75	0.340 - 0.410
☐	21	Overview of materials for Thermoset Polyurethane Foam, Unreinforced	0.000138 - 3.45	0.00800 - 1.39	0.300 - 0.750
☐	22	Overview of materials for PVC, Foam Grade	0.0270 - 3.38	0.0400 - 1.56	0.320
☐	23	DIAB Klegecell® R 130 Rigid, Closed Cell PVC Foam Core Material	0.128	0.117 - 0.149	0.320
☐	24	DIAB Klegecell® R 200 Rigid, Closed Cell PVC Foam Core Material	0.215	0.144 - 0.184	0.320
☐	25	DIAB Klegecell® R 260 Rigid, Closed Cell PVC Foam Core Material	0.290	0.180 - 0.230	0.320
☐	26	DIAB Klegecell® TR 130 High-performance Expanded Polymer Foam Core Material	0.109	0.117 - 0.149	0.320
☐	27	Evonik ROHACELL® 110 RIMA Polymethacrylimide Foam	0.180	0.110	0.290
☐	28	Evonik ROHACELL® 110 RIST-HT Polymethacrylimide Foam	0.180	0.110	0.290
☐	29	General Plastics LAST-A-FOAM® TR-15 Polyurethane Foam	0.162 - 0.215	0.240	0.300
☐	30	General Plastics LAST-A-FOAM® TR-20 Polyurethane Foam	0.462 - 0.471	0.320	0.300
☐	31	Evonik Rohacell® 110 S Self-Extinguishing Grade Polymethacrylimide (PMI) Foam	0.150	0.110	0.360
☐	32	Evonik Rohacell® 110 WF High Heat Grade Polymethacrylimide (PMI) Foam	0.180	0.110	0.290
☐	33	Evonik Rohacell® 150 EC Electrically Conductive Grade Polymethacrylimide (PMI) Foam	0.245	0.150	0.360
☐	34	Sawbones Solid Rigid Polyurethane Foam 15 pcf Density	0.173	0.240	0.300
☐	35	Sawbones Solid Rigid Polyurethane Foam 20 pcf Density	0.284	0.320	0.300
☐	36	Ascend Performance Materials Vydyne® 75HF Nylon 66/6, Extrusion Grade	0.500 - 2.70	1.14	0.400

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Materials flagged as discontinued (D) are no longer part of the manufacturer's standard product line according to our latest information. Th materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

Instructions: Optionally choose a material search category such as a general category like **'Metal'** or a child category like **'Aluminum Alloy'** from the category tree. Click on the [+] symbol to open branches on the tree. Next, select a material property from the drop-down list and enter the Unit of Measure. For the range, enter a minimum or a maximum value or both. Select up to two more material properties and set the ranges. Choose whether you want the resulting materials to match at least one or all of the material properties. Then click the **'Find'** button. Click a material from the results list to see the full datasheet or add the data sheets to your folder for comparison or export. More Detailed Property Search Instructions and Examples

Notes:

- Scientific notation may be used in the Min. and Max. range boxes (e. g. 1.04E-16).
- Text searches can be performed from any page - use the **Quick Search** in the bar at the top right.
- View more **Search Strategies** on how to find information in MatWeb.