

News (/materials-news-index.aspx)

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Materi	A Bac'D Directory (/materials-engineering-directory.aspx)
Com	100% Equipment (/materials-equipment-index.aspx)

Property	Minimum Value (S.I.)	Maximum Value (S.I.)	Units (S.I.)	Minimum Value (Imp.)	Maximum Value (Imp.)	Units (Imp.)
Atomic Volume (average)	0.122	0.0198	m ³ /mol	44.49	1208.1	in ³ /lbmol
Density	2.28	2.38	kg/m ³	142.336	148.579	lb/ft ³
Energy Content	210	260	kJ/kg	22751.1	28168.1	kcal/lb
Bulk Modulus	95	105	GPa	13.7786	15.229	10 ⁶ psi
Compressive Strength	3200	3460	MPa	464.121	501.831	ksi
Ductility	0.001	0.0015		0.001	0.0015	NULL
Elastic Limit	165	180	MPa	23.9312	26.1068	ksi
Endurance Limit	130	150	MPa	18.8549	21.7556	ksi
Fracture Toughness	0.7	0.9	MPa.m ^{1/2}	0.637033	0.819042	ksi.in ^{1/2}
Hardness	9000	10200	MPa	1305.34	1479.39	ksi
Loss Coefficient	7e-005	0.0001		7e-005	0.0001	NULL
Modulus of Rupture	180	200	MPa	26.1068	29.0075	ksi
Poisson's Ratio	0.265	0.275		0.265	0.275	NULL
Shear Modulus	60	63	GPa	8.70226	9.13737	10 ⁶ psi
Tensile Strength	165	180	MPa	23.9312	26.1068	ksi
Young's Modulus	140	180	GPa	20.3053	26.1068	10 ⁶ psi
Glass Temperature			K			°F
Latent Heat of Fusion	1343	1485	kJ/kg	577.383	638.432	BTU/lb
Maximum Service Temperature	800	850	K	980.33	1070.33	°F

Property	Minimum (Imp.)	Maximum	Units	Minimum Value (Imp.)	Maximum Value (Imp.)	Units (Imp.)
Melting Point		1723	K	1600.7	2641.73	
Minimum Service Temperature	0	About (/aboutus.aspx)		-45	-459.67	
Specific Heat	668	715	Blogs (/materials-blogs-index.aspx)		0.553309	
Thermal Conductivity		10	Articles (/articles.aspx)	157	187.203	ft ² .F
Thermal Expansion	7	Directory (/materials-engineering-directory.aspx)		5		/°F
Breakdown Potential	5	Equipment (/materials-equipment-index.aspx)	MV/m	12	307.16	V/mil
Dielectric Constant	11	Videos (/materials-videos-index.aspx)		11		
Resistivity	1e+006	Webinars (/webinars-index.aspx)	10 ⁻⁸	1e+01	1e+01	ohm.m
		Interviews (/interviews.aspx)				

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Environmental Properties		Metals Store (/metals)	
	Journals (/materials-journals-index.aspx)		
	Software (/engineering-software-index.aspx)	Resistance Factors	
		1=Poor 5=Excellent	
Flammability	Market Reports (/reports-and-docs-index.aspx)	5	
Fresh Water	Books (/book-reviews-index.aspx)	5	
Organic Solvents	eBooks (/ebooks)	5	
Oxidation at 500C	Advertise (/advertise)	5	
Sea Water	Contact (/contact.aspx)	4	
Strong Acid	Newsletters (/newsletters)	3	
Strong Alkalis	Search (/search.aspx)	2	
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Wear	Become a Member (/azoprofile/)	4	🔍
Weak Acid		4	
Weak Alkalis		4	

How Can Mechanical Testing for Medical Devices Advance the Treatment of Diabetes?

Landon Goldfarb



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Exploring the Benefits of FRP Composites

Randy Montgomery

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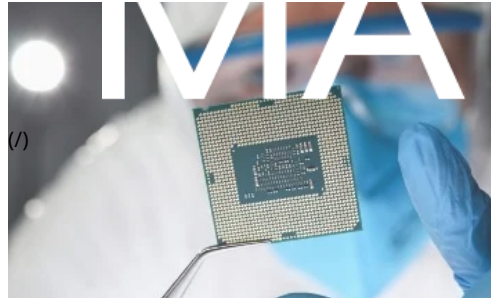
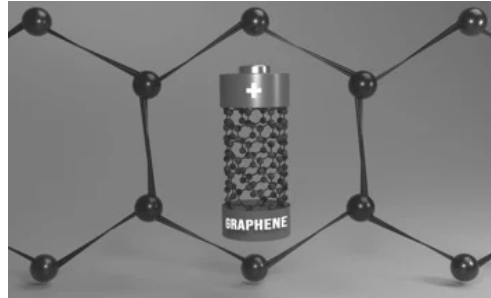
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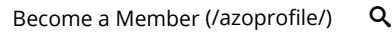
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