

## Grade, Size and Physical properties

Grade	Maximum size	Apparent density		Flexural strength		Tensile strength		Compressive strength		Resistivity		Thermal conductivity		Thermal expansion rate		Modulus of elasticity		Shore hardness	Ash content	Porosity rate
	mm	g/cm <sup>3</sup>	lbs/ft <sup>3</sup>	MPa	psi	MPa	psi	MPa	psi	$\mu\Omega\text{cm}$	$\times 10^5 \Omega\text{cm}$	W/mk	Btu-Ft/ft <sup>2</sup> HR°F	$\times 10^{-6}/^\circ\text{C}$	$\times 10^{-6}/^\circ\text{F}$	GPa	$\times 10^4 \text{psi}$	—	ppm	%
<b>T-2</b>	110×330×460	1.72	107.37	47.0	6826	24.5	3.555	68.6	9.954	1,440	57	104.4	60.4	4.5	2.5	9.8	1.42	53	300	16
<b>T-4</b>	160×465×465	1.78	111.12	49.0	7110	29.4	4.266	88.2	12.798	1,200	47	81.2	47.0	4.7	2.6	10.3	1.49	55	200	15
<b>T-5</b>	240×450×1,000	1.80	112.37	58.8	8.532	33.3	4.835	107.8	15.642	1,400	55	75.4	43.6	4.9	2.7	11.4	1.65	65	200	14
<b>T-6</b>	100×300×600	1.90	118.61	98.0	14.220	49.0	7.110	171.5	24.885	1,600	63	58.0	33.6	6.2	3.4	14.7	2.13	75	200	9
<b>T-8</b>	100×300×400	1.85	115.49	88.2	12.798	46.0	6.683	156.8	22.752	1,500	59	81.2	47.0	6.5	3.6	13.7	1.99	75	200	9
<b>ET-10</b>	300×500×1,000	1.75	109.25	58.8	8.532	34.3	4.977	98.0	14.220	1,400	55	104.4	60.4	3.8	2.1	10.8	1.56	50	100	15
<b>ED-11</b>	300×500×1,000	1.75	109.25	58.8	8.532	34.3	4.977	98.0	14.220	1,400	55	92.8	53.7	4.0	2.2	10.8	1.56	53	200	15
<b>ED-3</b>	240×450×1,000	1.80	112.37	58.8	8.532	34.3	4.977	107.8	15.642	1,400	55	75.4	43.6	4.9	2.7	11.4	1.65	65	200	13
<b>ED-4</b>	100×300×600	1.90	118.61	98.0	14.220	49.0	7.110	176.4	25.596	1,700	67	58.0	33.6	6.5	3.6	14.7	2.13	75	200	9
<b>EX-50</b>	300×600×1,000	1.75	109.25	63.7	9.243	36.3	5.261	98.0	14.220	1,250	49	92.8	53.7	4.0	2.2	10.8	1.56	55	200	15
<b>EX-60</b>	300×600×1,200	1.80	112.37	80.0	11.604	56.0	8.120	140.2	20.335	1,300	51	110.0	63.8	5.0	2.8	12.1	1.76	62	200	14
<b>EX-70</b>	235×440×1,000	1.85	115.49	68.6	9.954	49.0	7.110	137.2	19.908	1,500	59	81.2	47.0	6.0	3.2	13.7	1.99	70	300	10

Note: Unit conversion rate is (1)  $\text{MPa} \div 0.098 \rightarrow \text{kg/cm}^2$  (2)  $\text{GPa} \div 0.0098 \rightarrow \text{kg/mm}^2$  (3)  $\text{W/mk} \div 1.16 \rightarrow \text{kcal/mhr}^\circ\text{C}$   
 Above figure is typical, not guaranteed.