

Property	Unit	UL-500	UL-600	UL-300	UL-995	UL-995 (Fine Grain)	UL-1009	
<b>AL203</b>	%	94.0	96.0	97.6	99.5	99.5	99.85 Min	
<b>Flexural Strength</b>	Ibf/In <sup>2</sup>	50,000	“53 000”	000”	43,000	45,000	–	23,000
	MN/M <sup>2</sup>	350	370	300	315	–	160	
<b>Compressive Strength</b>	Ibf/In <sup>2</sup>	>300,000	>300,000	>250,000	>300,000	–	>100,000	
	MN/M <sup>2</sup>	>2,100	2,100	1,750	2,100	–	690	
<b>Bulk Specific Gravity</b>	–	3.64- 3.67	3.69- 3.72	3.73- 3.76	3.84- 3.87	3.84- 3.87	3.0-3.2	
<b>Porosity</b>	%Water Absorption	Vacuum Tight – 0.00	Vacuum Tight – 0.00	Vacuum Tight – 0.00	Vacuum Tight – 0.00	Vacuum Tight – 0.00	Porous 6.0-7.0	
<b>Colour</b>	–	White	White	White	White	White	White	
<b>Hardness</b>	Rockwell 45N	78	79	75	81	81	–	
<b>Thermal Conductivity</b>	Cal/Cm <sup>2</sup> /Cm/Sec/°C	0.049	0.051	0.064	0.070	–	0.038	
	W/M/K	20.5	25.5	26.8	29.3	–	15.9	
<b>Coefficient Of Linear Expansion</b>								
#8211; 25 Degrees #8211; 200 Degrees °C	Per°C (X10 <sup>-6</sup> )	6.3	6.4	6.9	6.9	–	–	
#8211; 200 #8211; 400 Degrees °C	Per°C (X10 <sup>-6</sup> )	7.5	7.6	7.8	7.8	–	–	
#8211; 400 #8211; 600 Degrees °C	Per°C (X10 <sup>-6</sup> )	8.0	8.2	8.5	8.3	–	–	
#8211; 600 #8211; 800 Degrees °C	Per°C (X10 <sup>-6</sup> )	8.6	8.7	8.8	9.0	–	–	
#8211; 800 #8211; 1000 Degrees °C	Per°C (X10 <sup>-6</sup> )	9.1	9.0	9.0	9.4	–	–	

Property	Unit	UL-500	UL-600	UL-300	UL-995	UL-995 (Fine Grain)	UL-1009
Maximum Working Temperature	/°C	1600	1620	1650	1725	1725	1800
Dielectric Strength	D.C Volts/Mil. (0.100 <sup>2</sup> Thick-Under Oil)	650	675	1100	800	–	–
	KV/Mm	25	26	43	31	–	–
Te Value	/°C	>950	>950	>1000	>975	–	>1000
Volume Resistivity							
25 Degrees °C	Ohm-Cm	10 <sup>14</sup>	>10 <sup>14</sup>	>10 <sup>14</sup>	10 <sup>14</sup>	–	>10 <sup>14</sup>
300 Degrees °C	Ohm-Cm	2.0×10 <sup>12</sup>	2.0×10 <sup>12</sup>	1.0×10 <sup>12</sup>	2.0×10 <sup>11</sup>	–	7.0×10 <sup>11</sup>
600 Degrees °C	Ohm-Cm	4.6×10 <sup>4</sup>	5.2×10 <sup>8</sup>	2.3×10 <sup>20</sup>	6.0×10 <sup>8</sup>	–	1.2×10 <sup>10</sup>
900 Degrees °C	Ohm-Cm	3.5×10 <sup>4</sup>	4.1×10 <sup>8</sup>	5.0×10 <sup>8</sup>	2.5×10 <sup>6</sup>	–	1.6×10 <sup>8</sup>

Property	Unit	UL-500	UL-600	UL-300
Dielectric Constant	(E <sup>1</sup> /E <sub>0</sub> )	25°C 300°C 500°C	25°C 300°C 500°C	25°C 300°C 500°C
10 MHz	(E <sup>1</sup> /E <sub>0</sub> )	9.07   9.53   9.91	9.30   9.65   10.10	9.53   9.91   10.14
1000MHz	(E <sup>1</sup> /E <sub>0</sub> )	9.04   –   –	9.20   –   –	9.00   –   –
8500MHz	(E <sup>1</sup> /E <sub>0</sub> )	8.98   9.26   9.40	9.16   9.30   9.45	9.04   9.32   9.54
Dissipation Factor	(Tanδ)	25°C 300°C 500°C	25°C 300°C 500°C	25°C 300°C 500°C
10MHz	(Tanδ)	0.00026   0.00028   0.00341	0.00030   0.00061   0.00330	0.00004   0.00016   0.00330
1000MHz	(Tanδ)	0.00062   –   –	0.00044   –   –	0.00030   –   –
8500MHz	(Tanδ)	0.00078   0.00115   0.00155	0.00062   0.00085   0.00121	0.00045   0.00040   0.00121
Loss Factor	–	25°C 300°C 500°C	25°C 300°C 500°C	25°C 300°C 500°C

Property	Unit	UL-500	UL-600	UL-300
10 MHz	–	0.00236   0.00267   0.03369	0.00279   0.00588   0.03333	0.00038   0.00158   0.0
100MHz	–	0.00560   –   –	0.00405   –   –	0.00270   –   –
8500MHz	–	0.00700   0.01165   0.01457	0.0588   0.00719   0.01143	0.00407   0.00973   0.0