



ULTEM

Ultem® PolyEtherImide (PEI) is an amber transparent high performance polymer which combines high strength and rigidity at elevated temperatures with long term heat resistance. Ultem<sup>®</sup> offers excellent dimensional stability combined with broad chemical resistance. Ultem® is also inherently flame resistant and low smoke generating. It excels in medical reusable applications requiring repeated sterilization and is available in FDA compliant colors.

## Ultem<sup>®</sup> 1000 - unfilled

Unfilled Ultem® excels in hot air and water environments. It's hydrolitically stable -- it retains 85% of tensile strength after 10,000 hour boiling water immersion and 100% of tensile strength after 2,000 steam autoclave cycles at 270°F. It is also UV and gamma radiation resistant.

Ultem® 2100 - 10% glass filled, Ultem® 2200 - 20% glass filled, Ultem® 2300 - 30% glass filled

Glass reinforced Ultem® provides even greater rigidity and dimensional stability while maintaining many of the useful characteristics of basic Ultem®. The glass reinforcement yields a product with an exceptional strength-to-weight ratio and increased tensile strength.

em® 1000 infilled 0.046 1.28 0.25 16,500 75,000 80 20,000 00,000	Ultem® 2300 30% glass 0.055 1.51 0.18 17,000 800,000 3 30,000
0.046 1.28 0.25 16,500 75,000 80 20,000 00,000 00,000	30% glass 0.055 1.51 0.18 17,000 800,000 3 30,000
0.046 1.28 0.25 16,500 75,000 80 20,000 00,000	0.055 1.51 0.18 17,000 800,000 3 30,000
0.046 1.28 0.25 16,500 75,000 80 20,000 00,000	0.055 1.51 0.18 17,000 800,000 3 30,000
1.28   0.25   16,500   75,000   80   20,000   00,000	1.51 0.18 17,000 800,000 3 30,000
0.25 16,500 75,000 80 20,000 00,000 00,000	0.18 17,000 800,000 3 30,000
16,500 75,000 80 20,000 00,000	17,000 800,000 3 30,000
16,500 75,000 80 20,000 00,000	17,000 800,000 3 30,000
75,000 80 20,000 00,000	800,000 3 30,000
80 20,000 00,000	3 30,000
20,000	30,000
00,000	
20.000	900,000
22,000	32,000
80,000	620,000
12 / R125	M114 / R127
0.5	1
3.1	1.1
92 / 200	410 / 210
19 / 215	419 / 215
40 / 171	340 / 171
0.9	0.9
3.1	3.1
V-O	V-O
830	770
3.15	3.7
0.0013	0.0015
.7 x 10 <sup>17</sup>	3.0 x 10 <sup>16</sup>
	3.1     92 / 200     19 / 215     40 / 171     0.9     3.1     V-O     830     3.15     0.0013     .7 x 10 <sup>17</sup>

control. Contact us for manufacturers' complete material property datasheets.

All values at 73°F (23°C) unless otherwise noted. ULTEM is a registered trademark of General Electric Company