



PRODUCT CAPABILITIES:

- Rod : 1/8" - 2"
- Sheet : 1/4" - 2"

ADVANTAGES:

- UL 94 V-0 Rating
- Microwave Transparency
- Temperature range:-4°F to + 340°F
- Withstands Eto, gamma radiation, autoclaving and dry heat sterilization
- Stable dielectric strength
- Low thermal expansion
- Low creep
- Excellent hydrolytic and chemical stability

PRODUCT COLORS:

- Yellow-Ochre (2300)
- Black (ALL)

APPLICATIONS INCLUDE:

- Fluid handling components
- Medical trays and instruments
- Photographic lens housing
- High heat test fixtures
- Glass reinforced for high stiffness electrical housings
- Aircraft and automotive parts
- Food processing manifolds

GENERAL PROPERTIES	ASTM or UL Test	ULTEM® 2100 Typical Values	ULTEM® 2200 Typical Values	ULTEM® 2300 Typical Values	ULTEM® 2400 Typical Values
PHYSICAL					
Specific Gravity (g/cm ³)	D792	1.34	1.42	1.51	1.61
Water Absorption, 24 hrs (%)	D570	0.21	0.19	0.16	0.13
MECHANICAL					
Tensile Strength (psi)	D638	16,700	18,900	22,900	25,900
Tensile Elongation at Break (psi)	D638	6	4	3	2.5
Flexural Strength (psi)	D790	28,900	32,900	32,900	34,900
Flexural Modulus (psi)	D790	749,000	999,000	1,299,000	1,699,000
Hardness, Rockwell (M)	D785	114	114	114	114
IZOD Notched Impact (ft-lb/in)	D256	1.0	1.2	1.6	2.1
THERMAL					
Coeff. of Thermal Expansion, Flow (1/°F)	E831	1.8 x 10	1.4 x 10 ⁻⁵	1.1 x 10	0.8 x 10 ¹⁶
Heat Deflection Temp (°C) @ 66 psi	D648	210	210	212	216
Heat Deflection Temp (°C) @ 264 psi	D648	207	210	210	213
Vicat Softening Temperature, Rate B/50 (°C)	D1525	223	220	228	234
Oxygen Index (LOI) (%)	D2863	47	50	50	54
Flammability Rating	UL-94	V-0	V-0	V-0	V-0
ELECTRICAL					
Dielectric Strength (V/mil)	D149	700	670	770	610
Dielectric Constant at 1 KHz	D150	3.5	3.5	3.7	3.7
Dissipation Factor at 1 KHz	D150	0.0014	0.0015	0.0015	0.002
Arc Resistance, Tungsten	D495	6	6	6	5
Volume Resistivity (ohm-cm)	D257	1 x 10 ¹⁷	7 x 10 ¹⁶	3 x 10 ¹⁶	1.5 x 10 ¹⁶

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.