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Ultem® 1000

Properties/Units	ASTM Test Method	Ultem® 1000
PHYSICAL		
Density (lb/in ³)	D-792	0.046
Density (g/cm ³)	D-792	1.28
Water Absorption, 24 Hrs (%)	D-570	0.25
MECHANICAL		
Tensile strength (psi)	D-638	16,500
Tensile Modulus (psi)	D-638	475,000
Tensile Elongation at Break (%)	D-638	80
Flexural Strength (psi)	D-790	20,000
Flexural Modulus (psi)	D-790	500,000
Compressive Strength (psi)	D-695	22,000
Compressive Modulus (psi)	D-695	480,000
Hardness, Rockwell	D-785	M112/ R125
Izod Notched Impact (ft-lb/in)	D-256	0.5
THERMAL		
Coefficient of Linear Thermal Expansion (x10 ⁻⁵ in/in/°F)	D-696	3.1
Heat Deflection Temp (°F/°C) at 264 psi	D-648	392/ 200
Glass Transition Temp (°F/°C)	D-3418	419/ 215
Max Operating Temp (°F/°C)	-	340/ 171
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C-177	0.90
Thermal Conductivity (x10 ⁻⁴ cal/cm-sec-°C)	C-177	3.10
Flammability Rating	UL-94	V-0
ELECTRICAL		
Dielectric Strength (V/mil) short time, 1/8" thick	D-149	830
Dielectric Constant at 1 MHz	D-150	3.15
Dissipation Factor at 1 MHz	D-150	0.0013
Volume Resistivity (ohm-cm) at 50% RH	D-257	6.7x10 ¹⁷

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