

DATA SHEET

ULTEM

PHYSICAL	
SPECIFIC GRAVITY	1.27
WATER ABSORPTION, 24 hr. (%)	.25
MECHANICAL	
TENSILE	
Strength, Yield (10 ³ psi) @ 73°F.	15.2
Elongation, Ultimate (%) @ 73°F.	8
Modulus, Yield (10 ³ psi) @ 73°F.	430
FLEXURAL	
Strength, (10 ³ psi) @ 73°F.	22
Modulus, Yield (10 ³ psi) @ 73°F.	480
COMPRESSIVE STRENGTH	
2% Offset, (10 ³ psi)	21.9
IMPACT STRENGTH	
Izod, Notched (ft. - lb./in.) @ 73°F.	1
HARDNESS	
COEFFICIENT OF STATIC FRICTION	M109
Against self	
Against steel	
THERMAL	
CONDUCTIVITY	
(BTU/hr/sq. ft./Degree F./in.)	
COEFF. OF THERMAL EXPANSION	
(10 ⁻⁵ /Degree F.)	3.1
SPECIFIC HEAT	
(BTU/lb./Degree F.)	
HEAT DEFLECTION TEMP.	
(Degree F.)	
At 66 psi.	410
At 264 psi	392
MAX. CONTINUOUS TEMP. (F.°)	
ELECTRICAL	
VOLUME RESISTIVITY	
(Ohm/cm)	6.6 X 10 ¹⁷
DIELECTRIC STRENGTH	
(V/Mil)	831
DIELECTRIC CONSTANT	
At 60 HZ	
At 1 MHZ	
DISSIPATION FACTOR	
At 60 HZ	
At 1 MHZ	.0013
ARC RESISTANCE (seconds)	
	126