

DATA SHEET

ACETAL

PHYSICAL	
SPECIFIC GRAVITY	1.41
WATER ABSORPTION, 24 hr. (%)	.21 - .22
MECHANICAL	
TENSILE	
Strength, Yield (10 ³ psi) @ 73°F.	8.8 - 9.5
Elongation, Ultimate (%) @ 73°F.	21 - 40
Modulus, Yield (10 ³ psi) @ 73°F.	410 - 420
FLEXURAL	
Strength, (10 ³ psi) @ 73°F.	13
Modulus, Yield (10 ³ psi) @ 73°F.	375
COMPRESSIVE STRENGTH	
2% Offset, (10 ³ psi)	4.5
IMPACT STRENGTH	
Izod, Notched (ft. - lb./in.) @ 73°F.	1.3
HARDNESS	
COEFFICIENT OF STATIC FRICTION	M80
Against self	
Against steel	0.15
THERMAL	
CONDUCTIVITY	
(BTU/hr/sq. ft./Degree F./in.)	1.6 - 1.92
COEFF. OF THERMAL EXPANSION	
(10 ⁻⁵ /Degree F.)	4.7 - 6.0
SPECIFIC HEAT	
(BTU/lb./Degree F.)	0.035
HEAT DEFLECTION TEMP.	
(Degree F.)	
At 66 psi.	315
At 264 psi	230
MAX. CONTINUOUS TEMP. (F.°)	210
ELECTRICAL	
VOLUME RESISTIVITY	
(Ohm/cm)	1 X 10 ¹⁴
DIELECTRIC STRENGTH	
(V/Mil)	500
DIELECTRIC CONSTANT	
At 60 HZ	3.7 - 3.9
At 1 MHZ	3.7 - 3.9
DISSIPATION FACTOR	
At 60 HZ	0.006 - 0.0010
At 1 MHZ	.005 - .0010
ARC RESISTANCE (seconds)	240