

DATA SHEET

RADAL POLYARYLSULFONE

PHYSICAL	
SPECIFIC GRAVITY	1.37
WATER ABSORPTION, 24 hr. (%)	
MECHANICAL	
TENSILE	
Strength, Yield (10 ³ psi) @ 73°F.	12
Elongation, Ultimate (%) @ 73°F.	
Modulus, Yield (10 ³ psi) @ 73°F.	
FLEXURAL	
Strength, (10 ³ psi) @ 73°F.	16.1
Modulus, Yield (10 ³ psi) @ 73°F.	
COMPRESSIVE STRENGTH	
2% Offset, (10 ³ psi)	
IMPACT STRENGTH	
Izod, Notched (ft. - lb./in.) @ 73°F.	1.6
HARDNESS	
COEFFICIENT OF STATIC FRICTION	
Against self	
Against steel	
THERMAL	
CONDUCTIVITY	
(BTU/hr/sq. ft./Degree F./in.)	
COEFF. OF THERMAL EXPANSION	
(10 ⁻⁵ /Degree F.)	2.7
SPECIFIC HEAT	
(BTU/lb./Degree F.)	
HEAT DEFLECTION TEMP.	
(Degree F.)	
At 66 psi.	
At 264 psi	400
MAX. CONTINUOUS TEMP. (F.°)	
ELECTRICAL	
VOLUME RESISTIVITY	
(Ohm/cm)	7.71 X 10 ¹⁶
DIELECTRIC STRENGTH	
(V/Mil)	383
DIELECTRIC CONSTANT	
At 60 HZ	3.51
At 1 MHZ	3.54
DISSIPATION FACTOR	
At 60 HZ	.0017
At 1 MHZ	.0056
ARC RESISTANCE (seconds)	
	81

