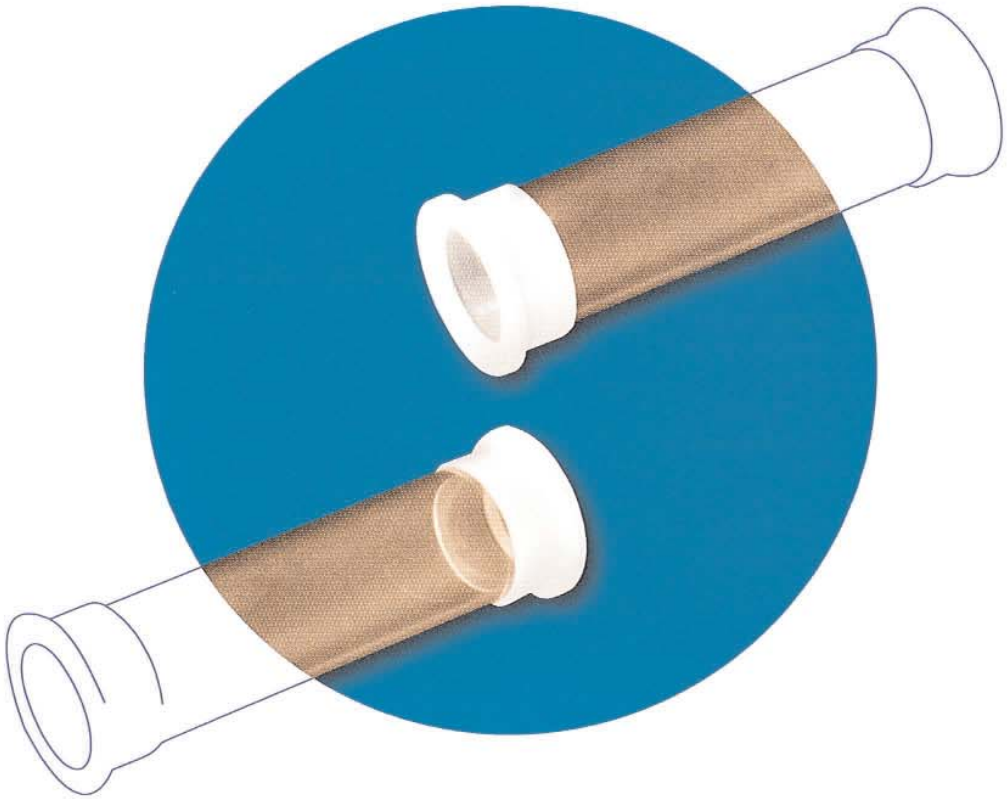
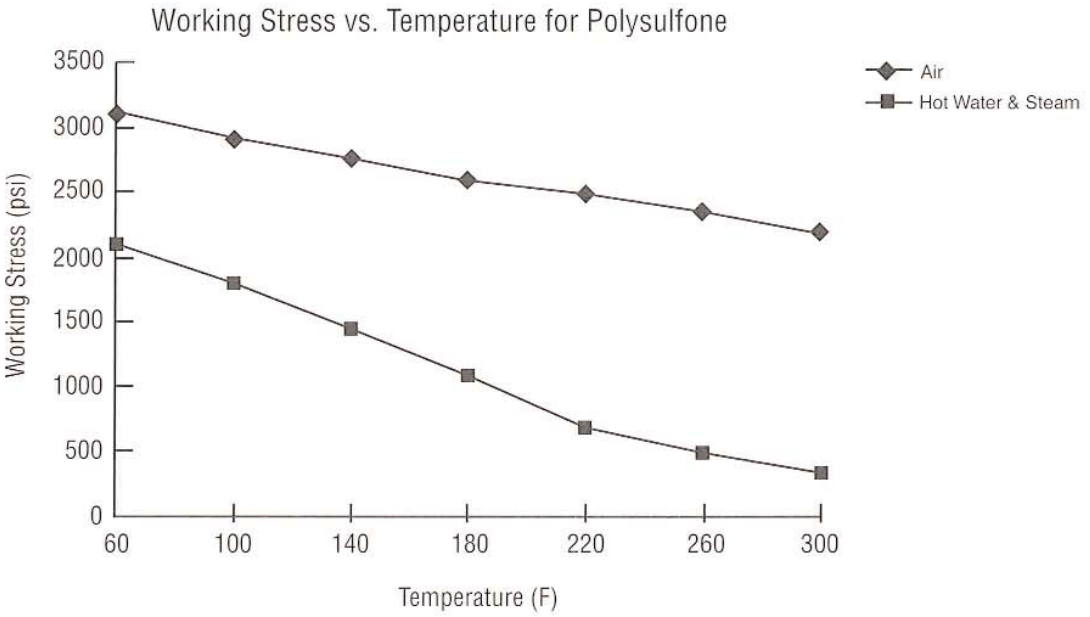
POLYSULFONE



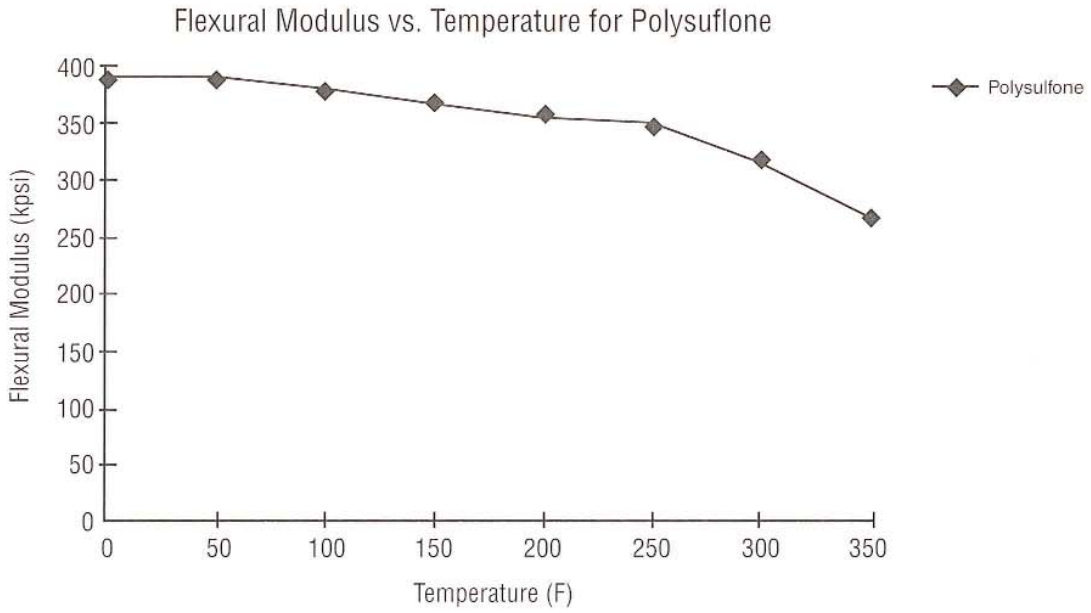
POLYSULFONE

PHYSICAL PROPERTIES	UDEL P-1700 AMOCO, INC.
Specific Gravity	1.24
Refractive Index (nD)	1.63
Water Absorption (in 24 hrs, %)	0.3
Autoclavable (Yes, No)	Yes to 285∞F
Approvals:	FDA 21 CFR 177.1655
3A, USDA	
Radiation Tolerance, Mrad	100
MECHANICAL PROPERTIES	
Tensile Strength, kpsi (MPa)	10.2 (70.3)
Compressive Strength, kpsi (MPa)	1.5 (10.4)
Flexural Strength, kpsi (MPa)	15.4 (106.2)
Tensile Modulus, kpsi (MPa)	360 (2480)
Flexural Modulus, kpsi (MPa)	390 (2690)
Hardness: Rockwell R	120
Shore D	87
Elongation, % Yield (Ultimate)	(50 to 100)
IZOD Impact Strength:	
Notched, ft*lb/in (J/m)	1.3 (69)
THERMAL PROPERTIES	
Melting Temperature, °F (°C)	650 (343)
Specific Heat, BTU/lb°F (J/kg°C)	0.24 (1004)
Thermal Conductivity:	
BTU*in/hr/ft2/°F (W/m/°C)	1.8 (0.26)
Coefficient of Thermal Expansion:	
in/in/°F x 10-6	31
mm/mm/°C x 10-6	56
Brittle Temperature, °F (°C)	-150 (-101)
Heat Deflection Temperature:	
264 psi, °F (°C)	345 (174)
66 psi, °F (°C)	358 (181)
UL-94 Flammability Class	V-O to V-1
Oxygen Index (%)	30
ELECTRICAL PROPERTIES	
Dielectric Strength, V/mil (kV/mm)	425 (17)
Electric Resistivity, Ohm/in (Ohm/cm) x 1014	1270 (500)
Dielectric Constant:	
KIz	3.14
MIz	3.10
Dissipation Factor:	
KIz	0.0013
MIz	0.005

WORKING STRESS vs. TEMPERATURE FOR POLYSULFONE



FLEXURAL MODULUS vs. TEMPERATURE FOR POLYSULFONE



TENSILE STRESS vs. STRAIN CURVES AT VARIOUS TEMPERATURES FOR POLYSULFONE