

DATA SHEET

DELTRIN AF

Homopolymer Acetal (Polyoxymethylene) with PTFE Fill

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.50
Tensile Strength	psi	8,000
Tensile Modulus	psi	435,000
Elongation (at break)	%	15
Flexural Strength	psi	12,000
Flexural Modulus	psi	445,000
Compressive Strength	psi	16,000
Hardness, Rockwell	-	R115
Coefficient of Friction (Dry vs. Steel)	-	.19
Limiting PV (with 4:1 safety factor)	psi x fpm	8,750
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	5.00×10^{-5}
Heat Deflection Temperature (264 psi)	F	244
Glass Transition Temperature	F	160
Continuous Service Temperature	F	180
Thermal Conductivity	BTU/in/hr.ft.F	3.0
ELECTRICAL		
Dielectric Strength	volts/mil	400
Volume Resistivity	ohm-cm	10^{15}
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.2
Water Absorption, Immersion, Saturation	% by wt.	.9

ENGINEERING NOTES:

- * Excellent slip-stick performance
- * Much better capability to handle speeds than unfilled acetal
- * Limited abrasion resistance
- * Limited chemical resistance