

**DATA SHEET**

**DELTRIN\* 100 AF ACETAL - EXTRUDED TEFLON\* FILLED ACETAL**

Property	Units	Test Method	Typical Average Values
<b>Mechanical</b>			
Specific Gravity, 73° F.	-	ASTM D792	1.54
Tensile Strength, 73° F.	psi	ASTM D638	6,200
Tensile Modulus of Elasticity, 73° F.	psi	ASTM D638	360,000
Tensile Elongation (at break), 73° F.	%	ASTM D638	10
Flexural Strength, 73° F.	psi	ASTM D790	12,000
Flexural Modulus of Elasticity, 73° F.	psi	ASTM D790	445,000
Shear Strength, 73° F.	psi	ASTM D732	7,600
Compressive Strength, 10% Deformation, 73° F.	psi	ASTM D695	14,000
Compressive Modulus of Elasticity, 73° F.	psi	ASTM D695	300,000
Hardness, Rockwell, Scale as noted, 73°F	-	ASTM D785	M80 (R110)
Hardness, Durometer, Shore "D" Scale, 73°F	-	ASTM D2240	D80
Izod Impact (notched), 73° F.	ft.lb./in.	ASTM D256 Type "A"	0.6
Coefficient of Friction (Dry vs. Steel) Dynamic	-	PTM 55007	0.15
Limiting PV (with 4:1 safety factor applied)	ft.lbs.in. <sup>2</sup> min.	PTM 55007	9,000
Wear Factor "k" x 10 <sup>-10</sup>	in. <sup>3</sup> -min/ft. lbs. hr.	PTM 55010	40
<b>Thermal</b>			
Coefficient of Linear Thermal Expansion (-40°F to 300°F)	in./in./°F	ASTM E-831 (TMA)	6.0 x 10 <sup>-5</sup>
Heat Deflection Temperature 264 psi	°F	ASTM D648	244
Tg-Glass Transition (amorphous)	°F	ASTM D3418	N/A
Melting Point (crystalline) peak	°F	ASTM D3418	347
Continuous Service Temperature in Air (Max.)(1)	°F	-	180
Thermal Conductivity	BTU in./(hr.ft. <sup>2</sup> °F)	-	-
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<b>Electrical</b>			
Dielectric Strength, Short Term	Volts/mil	ASTM D149	400
Surface Resistivity	ohms/square	EOS/ESD S11.11	>10 <sup>13</sup>
Dielectric Constant, 10 <sup>6</sup> Hz	-	ASTM D150	3.1
Dissipation Factor, 10 <sup>6</sup> Hz	-	ASTM D150	0.010
Flammability @ 3.1 mm (1/8 in.) (5)		UL 94	HB
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 Hours	% by wt.	ASTM D570(2)	0.2
Water Absorption Immersion, Saturation	% by wt.	ASTM D570(2)	1.0

- (1) Data represent Quadrant's estimated maximum long-term service temperature based on practical field experience.
- (2) Specimens: 1/8" thick x 2" dia. or square.
- (3) **Estimated rating based on available data.** The UL 94 Test is a laboratory test and does not relate to actual fire hazard. Contact Quadrant for specific UL "Yellow Card" recognition number.

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