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 Revision: 00  
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DATA SHEET			
TIVAR® CLEANSTAT™ - FDA, USDA & 3-A Dairy, Electro Static Dissipative UHMW-PE			
Property	Units	Test Method	Typical Average Values
<b>Mechanical</b>			
Specific Gravity, 73° F	-	ASTM D792	.94
Tensile Strength, 73° F	psi	ASTM D638	5200
Tensile Modulus of Elasticity, 73° F	psi	ASTM D638	108000
Tensile Elongation (at break), 73° F	%	ASTM D638	200
Flexural Strength, 73° F	psi	ASTM D790	3200
Flexural Modulus of Elasticity, 73° F	psi	ASTM D790	110000
Shear Strength, 73° F	psi	ASTM D732	
Compressive Strength, 10% Deformation, 73° F	psi	ASTM D695	3100
Compressive Modulus of Elasticity, 73° F	psi	ASTM D695	77750
Hardness, Rockwell, Scale as noted, 73° F	-	ASTM D785	N/A
Hardness, Durometer, Shore "D" Scale, 73° F	-	ASTM D2240	66
Izod Impact (notched), 73° F	ft.lb./in.	ASTM D256 Type "A"	No Break
Coefficient of Friction (Dry vs. Steel) Dynamic	-	QTM 55007	.12
Limiting PV (with 4:1 safety factor applied)	ft.lbs.in. <sup>2</sup> min.	QTM 55007	
Sand Slurry Abrasion	1018 Steel = 100.	ASTM D4020	13
<b>Thermal</b>			
Coefficient of Linear Thermal Expansion (-40°F to 300°F)	in./in.°F	ASTM E-831 (TMA)	1.9 X 10 <sup>-4</sup>
Heat Deflection Temperature 264 psi	°F	ASTM D648	116
Tg-Glass Transition (amorphous)	°F	ASTM D3418	N/A
Melting Point (crystalline) peak	°F	ASTM D3418	275
Continuous Service Temperature in Air (Max.)(1)	°F	-	180
Thermal Conductivity	BTU in./(hr.ft. <sup>2</sup> °F)	-	

**DATA SHEET**

**TIVAR® CLEANSTAT™ - FDA, USDA & 3-A Dairy, Electro Static Dissipative UHMW-PE**

Property	Units	Test Method	Typical Average Values
<b>Electrical</b>			
Dielectric Strength, Short Term	Volts/mil	ASTM D149	N/A
Surface Resistivity	ohms/square	EOS/ESD S11.11	10 <sup>7</sup> - 10 <sup>10</sup>
Dielectric Constant, 10 <sup>6</sup> Hz	-	ASTM D150	N/A/
Dissipation Factor, 10 <sup>6</sup> Hz	-	ASTM D150	N/A
Flammability @ 3.1 mm (1/8 in.) (3)	-	UL94	HB
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 Hours	% by wt.	ASTM D570(2)	< 0.01
Water Absorption Immersion, Saturation	% by wt.	ASTM D570(2)	< 0.01

- (1) Data represent Quadrant's estimated maximum long-term service temperature based on practical field experience.
- (2) Specimens: 1/8" thick x 2" diameter 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.