



QUADRANT

TIVAR® DRYSLIDE

Engineering Innovative Solutions for Material Handling

Product Profile:

- Electro Static Dissipative
- Ideal for dusty environments
- Helps reduce surging
- Won't mar packaging or products
- Corrosion-resistant
- Self-lubricating
- Reduces noise
- No moisture absorption



Modified with special lubricants, TIVAR® DrySlide has the lowest coefficient of friction of any of the TIVAR® products.

The enhanced coefficient of friction and anti-static properties make TIVAR® DrySlide an excellent performer in dusty environments. Even damp boxes or parcels covered in shrink-wrap won't stick to TIVAR® DrySlide. In addition, the enhanced surface lubricity won't mar packaging or products, but allow them to move freely without jamming from dirt, grit or static build-up.

TIVAR® DrySlide is and available in 48" x 120" sheets, with gauge sizes ranging from 1/4" to 2".

Industries	Applications
Unit Material Handling Conveyor Equipment Parcel Handling/Distribution Centers	Belt skirting Chute liners Conveying components: bearings, belt guides, chain guides, curves, guide rails, wearstrips Dead plates Diverter bars Guide rollers Hitch plates Hopper liners Liners for gravity flow applications Roller covers Transfer plates Under belt wearstrips

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Data Sheet No: 10526
Revision: 00
Effective Date: 7/14/06
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DATA SHEET			
TIVAR® DRYSLIDE – Lubricant Filled, Electro Static Dissipative, UV Stabilized UHMW-PE			
Property	Units	Test Method	Typical Average Values
Mechanical			
Specific Gravity, 73° F	-	ASTM D792	.94
Tensile Strength, 73° F	psi	ASTM D638	4800
Tensile Modulus of Elasticity, 73° F	psi	ASTM D638	116000
Tensile Elongation (at break), 73° F	%	ASTM D638	200
Flexural Strength, 73° F	psi	ASTM D790	3100
Flexural Modulus of Elasticity, 73° F	psi	ASTM D790	106000
Shear Strength, 73° F	psi	ASTM D732	
Compressive Strength, 10% Deformation, 73° F	psi	ASTM D695	2900
Compressive Modulus of Elasticity, 73° F	psi	ASTM D695	80000
Hardness, Rockwell, Scale as noted, 73° F	-	ASTM D785	N/A
Hardness, Durometer, Shore "D" Scale, 73° F	-	ASTM D2240	64
Izod Impact (notched), 73° F	ft.lb./in.	ASTM D256 Type "A"	No Break
Coefficient of Friction (Dry vs. Steel) Dynamic	-	QTM 55007	.08
Limiting PV (with 4:1 safety factor applied)	ft.lbs.in. ² min.	QTM 55007	2000
Sand Slurry Abrasion	1018 Steel = 100	ASTM D4020	10
Thermal			
Coefficient of Linear Thermal Expansion (-40°F to 300°F)	in./in./°F	ASTM E-831 (TMA)	1.1 X 10 ⁻⁴
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. ² °F)	-	

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Property	Units	Test Method	Typical Average Values
Electrical			
Dielectric Strength, Short Term	Volts/mil	ASTM D149	N/A
Surface Resistivity	ohms/square	ASTM D257	10 ⁵ - 10 ⁹
Dielectric Constant, 10 ⁶ Hz	-	ASTM D150	N/A
Dissipation Factor, 10 ⁶ Hz	-	ASTM D150	N/A
Flammability @ 3.1 mm (1/8 in.) (3)	-	UL94	HB
Miscellaneous			
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.

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