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## DATA SHEET

### TIVAR® DockGuard - Uniblend Recycled UHMW-PE

#### Property Units Test

#### Method

#### Typical Average

#### Values

#### Mechanical

Specific Gravity, 73° F - ASTM D792 .94

Tensile Strength, 73° F psi ASTM D638 5500

Tensile Modulus of Elasticity, 73° F psi ASTM D638 116000

Tensile Elongation (at break), 73° F % ASTM D638 250

Flexural Strength, 73° F psi ASTM D790 3600

Flexural Modulus of Elasticity, 73° F psi ASTM D790 116000

Shear Strength, 73° F psi ASTM D732

Compressive Strength, 10% Deformation, 73° F psi ASTM D695 3300

Compressive Modulus of Elasticity, 73° F psi ASTM D695 100000

Hardness, Rockwell, Scale as noted, 73° F - ASTM D785 N/A

Hardness, Durometer, Shore "D" Scale, 73° F - ASTM D2240 68

Izod Impact (notched), 73° F ft.lb./in. ASTM D256 Type "A" No Break

Coefficient of Friction (Dry vs. Steel) Dynamic - QTM 55007 .15

Limiting PV (with 4:1 safety factor applied) ft.lbs.in.2 min. QTM 55007 2000

Sand Slurry Abrasion 1018 Steel = 100. ASTM D4020 13

#### Thermal

Coefficient of Linear Thermal Expansion

(-40°F to 300°F) in./in./°F ASTM E-831 (TMA) 8.9 X 10<sup>-5</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 260

Continuous Service Temperature in Air (Max.)(1) °F - 180

Thermal Conductivity BTU in./(hr.ft.2 °F) -

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Revision: 00

Effective Date: 1/23/07

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#### Electrical

Dielectric Strength, Short Term Volts/mil ASTM D149 N/A

Surface Resistivity ohms/square ASTM D257 > 10<sup>15</sup>

Dielectric Constant, 106 Hz - ASTM D150 N/A/

Dissipation Factor, 106 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.

