Estride Harmony Sensor

Carbon-Filled Polyethylene

PRODUCT DESCRIPTION

Electrical polyethylene film loaded with carbon

PRODUCT APPLICATION

Used for large scale and large pressure application pressure sensors

PRODUCT FEATURES

► PRODUCT FEATURES & BENEFITS:

- **Volume-conductive plastic**
- **Humidity independent conductivity**
- **Meets military specification MIL-P-82646A**
- **Does not get effected by Age or temperature.**

► CHEMICAL SUSCEPTIBILITY:

- **Methanol: Resistant**
- **Ethanol: Resistant**
- **Isopropanol: Resistant**
- **Weak Acids: Resistant**
- **Ketones (Acetone): Slow Attack**
- **Weak Alkalines: Slow Attack**
- **Hydrocarbons: Non-Resistant**

	UNIT	TYPICAL VALUE	TEST METHOD
TYPICAL VALUES FOR 4MIL (0.1MM) THICK VERSIONS			
MECHANICAL PROPERTIES			
Tensile strength	**Mpa**	**13,8**	**ASTM-D882**
Elongation			
Machine Direction		**330%**	**ASTM-D882**
Transverse Direction		**390%**	**ASTM-D882**
Dart Impact Test			**ASTM D1709-67**
50% Failure Weight	**grams**	**390+/-10**	**Method B**
Heat Seal Strength (% of Tensile Strength)			
Machine Direction		**96%**	**ASTM-D882**
Transverse Direction		**82%**	**ASTM-D882**
Electrostatic Decay	**seconds**	**<2,0**	**EIA-Std 541**
ELECTRICAL PROPERTIES			
Surface Resistivity *(Thickness Independent)*			
Typical Value	**ohms/square** **ohms/square**	**< 50,000-100,000** **~ 40,000,20000**	**MIL-PRF-81705D Type II**
Through Sheet Volume Resistance *(Thickness Dependent)*			
Typical Value	**ohms** **ohms**	**< 5,000** **~ 2,000**	**MIL-PRF-81705D Type II**