alm

AN EOS COMPANY

PA 830-ESD 12

NYLON 11

This nylon 11 based material uses graphite for its electrostatic-dissipative (ESD) properties and contains no carbon fibers.

HIGHLIGHTS

→ Electrostatically dissipative nylon 11 without carbon fibers

→ Good tensile strength and toughness

→ Easy to machine, less abrasive, and excellent surface finish

APPLICATIONS

→ Assembly fixtures semiconductor industry

→ Electronic products

→ Applications requiring ESD capabilities

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TYPICAL PHYSICAL PROPERTIES			
PROPERTY	**TEST METHOD**	**IMPERIAL**	**METRIC**
Color/Appearance	Visual	Black with Silver Flakes	Black with Silver Flakes
Bulk Density	ASTM D1895	0.0177 lb/ in^3	0.49 g/cc
Sintered Density	ASTM D792	0.0397 lb/in^3	1.1 g/cc
Melt Viscosity (Virgin)	ASTM D1238	0.88 oz/10 min	25 g/10 min
Elongation at Break (XY)	ASTM D638	8%	8%
Tensile Modulus (XY)	ASTM D638	427,000 psi	2944 MPa
Tensile Strength	ASTM D638	4,200 psi	29 MPa
PSD D10-D90 (D50)	Laser Diffraction		31μ-95μ (55μ)
Surface Resistivity (Top Facing Surface Ω)	ASTM D257	2.4 x 10^3 Ω/square	2.4 x 10^3 Ω/square
Surface Resistivity (Bottom Facing Surface Ω)	ASTM D257	3.3 x 10^4 Ω/square	3.3 x 10^4 Ω/square