



Typical Properties of

Semitron® ESd 420

Electro Static Dissipative Polyetherimide

Process: Compression Molded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.34
Tensile Strength	D638	psi	11,500
Tensile Modulus	D638	psi	640,000
Elongation	D638	%	2
Flexural Strength	D790	psi	14,500
Flexural Modulus	D790	psi	650,000
Compressive Strength	D695	psi	23,800
Compressive Modulus	D695	psi	370,000
Hardness, Rockwell	D785	--	M118
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	1
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.28
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	1.95 x 10 ⁻⁵
Continuous Use Temperature	--	°F	340
Heat Deflection Temperature	D648	°F	410
Glass Transition Temperature	D3418	°F	410
Melting Point	D3418	°F	N / A
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	1.51
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	10 ⁶ - 10 ⁹
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.5
Water Absorption, Saturation	D570	% by weight	2.9
Limiting PV (4:1 Safety Factor)	--	--	9,500
K-Factor	--	--	100
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.