

Quadrant EPP Semitron® ESd 410C PEI, static dissipative, extruded (ISO Data)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Having an excellent mechanical performance up to 210 °C, Semitron ESd 410C provides ESd-solutions at higher temperatures. Additionally, Semitron ESd 410C exhibits excellent dimensional stability (low coefficient of linear thermal expansion and small water absorption), ideal for handling equipment in the electrical/electronic or semiconductor industries Surface resistivity: 104 - 106 ohms/sq. Thermal performance to 210 °C (410 °F) Low stress for tight tolerance machining High strength and stiffness

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Semitron-ESd-410C-PEI-static-dissipative-extruded-ISO-Data.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183-1
Moisture Absorption at Equilibrium	0.60 %	0.60 %	50% RH
Water Absorption at Saturation	1.1 %	1.1 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	115	115	ISO 2039-2
Hardness, Shore D	85	85	
Tensile Strength	62.0 MPa	8990 psi	at Break (NYP); ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	5.85 GPa	848 ksi	ISO 527-1/-2
Flexural Strength	80.0 MPa	11600 psi	
Compressive Strength	44.0 MPa	6380 psi	ISO 604
	@Strain 1 %	@Strain 1 %	
	76.0 MPa	11000 psi	
	@Strain 2 %	@Strain 2 %	ISO 604
	114 MPa	16500 psi	ISO 604
	@Strain 5 %	@Strain 5 %	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179-1/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear	Metric 40.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	English 22.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Comments
	@Temperature 23.0 - 100 $^{\circ}\text{C}$	@Temperature 73.4 - 212 $^{\circ}\text{F}$	
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	170 $^{\circ}\text{C}$	338 $^{\circ}\text{F}$	Continuous
Deflection Temperature at 1.8 MPa (264 psi)	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	ISO 75-1/-2
Glass Transition Temp, Tg	215 $^{\circ}\text{C}$	419 $^{\circ}\text{F}$	DSC, 20 $^{\circ}\text{C}/\text{min}.$; ISO 11357-1/-2
Flammability, UL94	V-0	V-0	
Oxygen Index	47 %	47 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.0e+6 ohm-cm	10000 - 1.0e+6 ohm-cm	IEC 60093
Surface Resistivity per Square	10000 - 1.0e+6 ohm	10000 - 1.0e+6 ohm	IEC 60093

Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
European Food 1935/2004	No	No	
FDA	No	No	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Unacceptable	Unacceptable	
Acids, Weak	Acceptable	Acceptable	
Alcohols	Acceptable	Acceptable	
Alkalies, Strong (pH 11-14)	Unacceptable	Unacceptable	
Alkalies, Weak	Acceptable	Acceptable	
Chlorinated Solvents	Unacceptable	Unacceptable	
Conductive / Static Dissipative	Yes	Yes	
Continuous Sunlight	Acceptable	Acceptable	
Hot Water / Steam	Acceptable	Acceptable	

Chemical Resistance Properties	Metric	English	Comments
Hydrocarbons - Aromatic	Unacceptable	Unacceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Unacceptable	Unacceptable	

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