



Material: Semitron® ESd 410 - Static Dissipative PEI

Having excellent mechanical performance up to 210°C means ESd provides solutions at higher temperatures. It additionally exhibits excellent dimensional stability, low coefficient of linear thermal expansion and small water absorption.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Black
Density	ISO 1183	g/cm ³	1.41
Water Absorption - saturation in air (23°C/50%RH)	-	%	0.75
Water Absorption - saturation in water (23°C)	-	%	1.35
Tensile stress at yield/break* ¹	ISO 527	Mpa	-/62
Tensile modulus of elasticity* ¹	ISO 527	Mpa	6400
Tensile strain at break* ¹	ISO 527	%	2
Impact - Charpy	179/1eU	kJ/m ²	-
Impact – Charpy notched	179/1eA	kJ/m ²	4
Hardness	Rockwell ISO 2039-2	-	M115
Glass Transition Temp	-	°C	215
Max service temp in air short periods	-	°C	200
Max service temp continuously for 20000hrs	-	°C	170
Linear thermal expansion coefficient (23-100°C)	-	m/(m.k)	35x10 ⁻⁶
Linear thermal expansion coefficient (23-150°C)	-	m/(m.k)	35x10 ⁻⁶
Linear thermal expansion coefficient (+150°C)	-	m/(m.k)	35x10 ⁻⁶
Thermal Conductivity	-	W/(K.m)	-
Flammability (3mm thickness)	-	-	V-0
Electric Strength	ISO 60243	kV/mm	-
Volume resistivity* ¹	ISO 60093	Ohm.cm	10 ⁴ -10 ⁶
Surface resistivity* ¹	ISO 60093	Ohm	10 ⁴ -10 ⁶
* ¹ Measured on dry test specimens (where applicable)			

Availability:

Please call for further details.

Applications:

Excellent choice for manufacturing of sensitive electrical components and handling fixture

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.