



Material: Semitron® ESd 500 - Static Dissipative PTFE

Reinforced with proprietary synthetic mica giving an excellent combination of low frictional properties, good dimensional stability and electrostatic dissipation. Whenever virgin PTFE causes electrical discharge problems, Semitron® ESd 500 will provide a controlled bleed-off of static charges while maintaining typical PTFE properties.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	White
Density	ISO 1183	g/cm ³	2.30
Water Absorption - saturation in air (23°C/50%RH)	-	%	-
Water Absorption - saturation in water (23°C)	-	%	2.0
Tensile stress at yield/break* ¹	ISO 527	Mpa	-/10
Tensile modulus of elasticity* ¹	ISO 527	Mpa	1800
Tensile strain at break* ¹	ISO 527	%	50
Impact - Charpy	179/1eU	kJ/m ²	No break
Impact – Charpy notched	179/1eA	kJ/m ²	5
Hardness	Rockwell ISO 2039-2	-	R50
Melting Point	-	°c	327
Max service temp in air short periods	-	°c	280
Max service temp continuously for 20000hrs	-	°c	260
Linear thermal expansion coefficient (23-100°C)	-	m/(m.k)	100x10 ⁻⁶
Linear thermal expansion coefficient (23-150°C)	-	m/(m.k)	100x10 ⁻⁶
Linear thermal expansion coefficient (+150°C)	-	m/(m.k)	140x10 ⁻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 ¹⁰ -10 ¹²
Surface resistivity* ¹	ISO 60093	Ohm	10 ¹⁰ -10 ¹²
* 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.