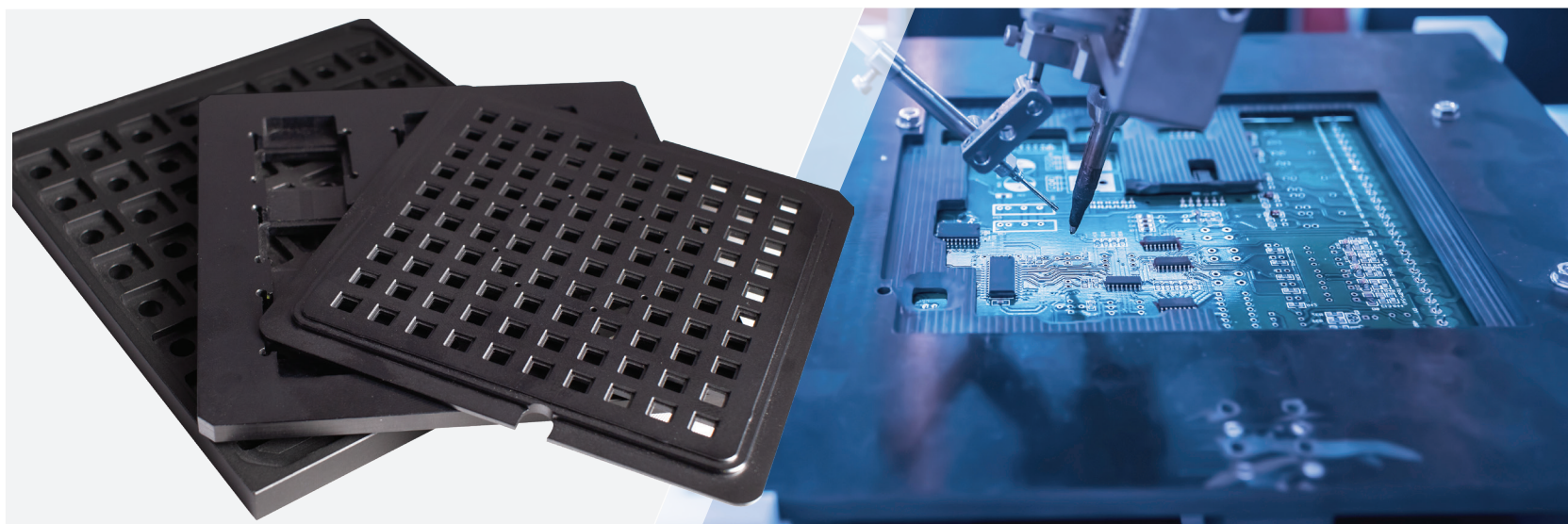


Semitron® POM CNT

Static Dissipative High Performance Extruded Acetal Copolymer

Semitron® POM CNT is an extruded Static Dissipative POM C based polymer system developed specifically for electronic fixture applications that require a precise surface resistivity range yet offering increased dimensional stability vs conventional POM ESD products.

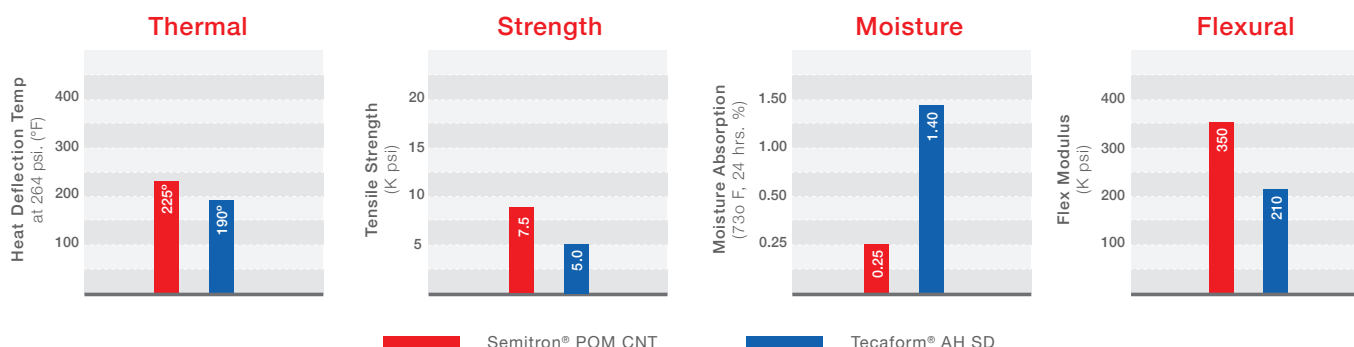


Key Benefits

- Flexural Modulus of 350,000 psi with an HDT of 225 @ 264 psi
- Extremely low moisture absorption of 0.25% @ 24 hours and 0.75% @ saturation

Common Applications

- Integrated Chip Test Jigs
- Basic Electronics Assembly Fixturing
- Basic Test Sockets & PCB Test Jigs



Data Sheet

Properties	ASTM Test Method	Semitron® ESd 225 POM	Semitron® POM CNT	Semitron® ESd 300 PET	Semitron® HPV PEEK
Melting Point (°F)	D3418	320	335	485	644
Surface Resistivity (Ω/sq)	-	10 ⁶ ~10 ⁹	10 ⁶ ~10 ⁹	10 ⁶ ~10 ⁹	10 ⁶ ~10 ⁹
HDT @ 264psi (°F)	D648	225	225	~300	383
Hardness Rockwell @73°F	D785	M50	M71	R1256	M90
CLTE (in/in/°F, X 10 ⁻⁵)	E-831	9.3	7.6	5.5	2.2
Flexural Modulus (psi)	D790	220,000	350,000	477,000	1,075,000
Tensile Strength (psi)	D638	5,400	7,500	12,000	14,750
Tensile Mod. of Elasticity (psi)	D638	200,000	340,000	490,000	1,100,000
Water Absorption (% by wt.)	D570	2.0	0.25	0.07	0.05
Water Absorption at Saturation (% by wt.)	D570	8.0	0.75	0.12	0.35
Relative Price (\$)	-	\$	\$	\$\$\$	\$\$\$\$

(1) Semitron® HPV PEEK data based on preliminary testing.

 - Advantage

 - Strong Advantage

 - Best in Class

Semitron® POM CNT Available Sizes

	Thickness	Plate Size (mm.)	Plate Size (in.)	
Semitron® POM CNT	5mm	610 x 2000	24" x 79"	MTO
	7mm/0.25"	610 x 2000	24" x 79"	MTO
	10mm	610 x 2000	24" x 79"	Standard
	12mm/0.5"	610 x 2000	24" x 79"	Standard
	15mm	610 x 2000	24" x 79"	Standard
	20mm	610 x 2000	24" x 79"	Standard
	25mm/1.0"	610 x 2000	24" x 79"	Standard
	30mm/1.25"	610 x 2000	24" x 79"	Standard
	35mm	610 x 2000	24" x 79"	Standard
	40mm	610 x 2000	24" x 79"	Standard
	45mm	610 x 2000	24" x 79"	Standard
	50mm/2.0"	610 x 2000	24" x 79"	Standard

* 1000 mm (39.5") length plate can be made to order

Distributed by:

Distributed by:



For more information visit
www.piedmontplastics.com

All statements, technical information and recommendations contained in this publication are presented in good faith and are, as a rule, based upon tests and such tests are believed to be reliable and practical field experience. The reader, however, is cautioned, that Mitsubishi Chemical Advanced Materials does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Mitsubishi Chemical Advanced Materials' products in any given application. Semitron is a registered trademark of the Mitsubishi Chemical Advanced Materials group of companies.

Design and content created by Mitsubishi Chemical Advanced Materials and are protected by copyright law. Copyright © Mitsubishi Chemical Advanced Materials. All rights reserved. MCM NA 006 | 6.24.19

