



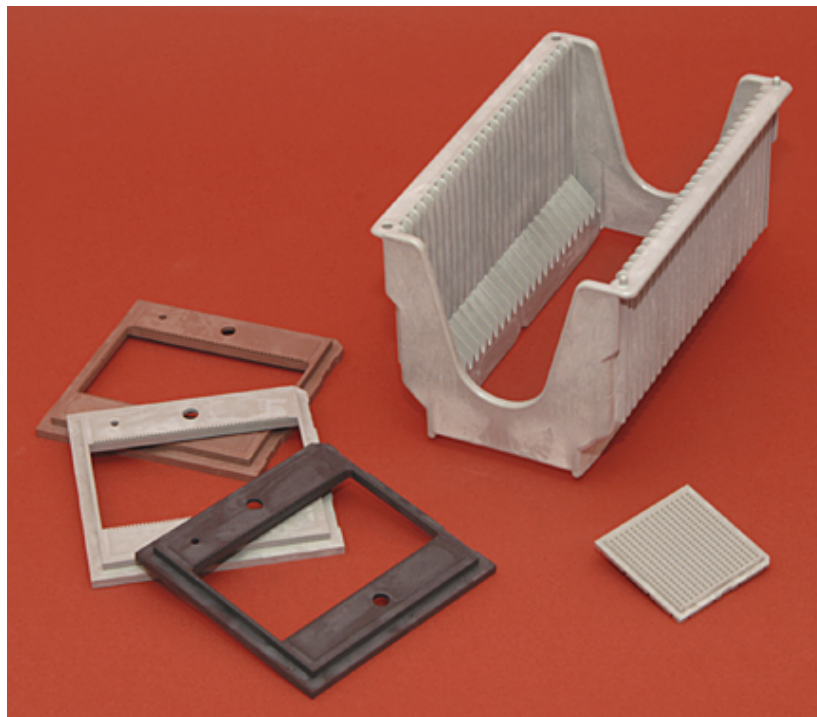
## STAT-PRO<sup>®</sup> 3600 CONDUCTIVE PEEK<sup>™</sup>

Product Datasheet

May 2004

### Overview:

*STAT-PRO<sup>®</sup> 3600 is part of a revolutionary new class of high temperature materials that are clean, colorable, dimensionally stable, chemically resistant, and electrostatic discharge (ESD) safe. The material is especially well suited for thin film head applications requiring static protection and rigid dimensional stability. The material has excellent flexural and tensile properties at very high temperatures.*



### Key Features:

- Industry leading dimensional stability and flatness capabilities improve automation, efficiency and yield
- Conductive properties protect against device damage/loss due to electrostatic discharge (ESD)
- Ultra-high temperature capability enables new/additional processing steps
- Colorable for ease of product differentiation
- Chemically resistant to accommodate a variety of processing techniques

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#### ENTEGRIS, INC.

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*The materials integrity management company*

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### Typical Properties:

Property	Test Method	Value	Units
<b>Physical</b>			
Specific gravity	ASTM D-792	2.10+/- .05	Grams/CC
<b>Electrical</b>			
Volume resistivity	ASTM D-257	<9.99E+05	ohm-cm
Surface resistivity	ASTM D-257	10 <sup>3</sup> – 10 <sup>5</sup>	ohm/sq
<b>Cleanliness</b>			
Outgassing (total)	LWI-0023	<1.6	µg/g
Acid Leachable	LWI-0050	<6,000	ng/g
Chloride	LWI-0050	<1,000	ng/g
Sulfate	LWI-0050	<300	ng/g
<b>Mechanical</b>			
Notched Izod impact	ASTM D-256	0.7+/-0.40	ft-lbs/in
Unnotched impact	ASTM D-256	8.3+/-3.5	ft-lbs/in
Tensile strength	ASTM D-638	13,000	PSI
Tensile modulus	ASTM D-638	1.15X10 <sup>6</sup>	PSI
Tensile elongation	ASTM D-638	1.0—3.0	%
Flexural strength	ASTM D-790	21,000	PSI
Flexural modulus	ASTM D-790	1.2E+06	PSI
<b>Usage Temperature</b>			
Recommended Limits		572/300*	°F/°C
<b>Coefficient of Thermal Expansion</b>			
Flow Direction		33x10 <sup>-6</sup>	m/m°C
Transverse Direction		37x10 <sup>-6</sup>	m/m°C
<b>Thermal Conductivity</b>			
		0.53	W/m°K

*This information is based on our experience to date and we believe it to be reliable. Data is obtained from specimens molded under controlled conditions from representative samples of the compound described. Properties may be affected by the molding techniques and by the size and shape of the item molded. Identical results cannot be guaranteed and no assurance can be implied that all molded articles have the same properties as those listed.*

*\*Recommended temperature limits are product dependent. For thin film head trays, the max recommended temperature limit is 392°F/200°C. For process carriers, the max recommended temperature limit is 572°F/300°C. For temperatures outside of these ranges, please contact Entegris for recommendations.*

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