## Genestar™

## Your Ideal Choice for SMT Connectors

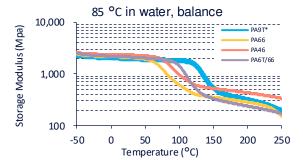
GENESTAR™ is a brand name of heat resistant polyamide developed by Kuraray. GENESTAR™ PA9T series in that brand is a well-balanced long-chain polyphthalamide (PPA) that combines low water absorption and high mechanical properties over a broad temperature range.

Functionalities in electronic applications (smartphones, laptops) increase and therefore the number of chips and connectors is expected to increase. However, as the megatrend to downsize as well as packing more subsystems into the smaller parts, it is challenging for designers to fit all these chips and connectors in.

A similar trend can be applied to automotive applications. Due to electrification and lightweight, the trend is to move to surface mounting technology (SMT) and downsize parts while maintaining safety of the connectors.

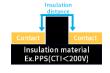
GENESTAR™ PA9T offers the following advantages (not limited to), while still maintaining safety requirements for the parts:

 Mechanical integrity over a wide range of temperature and humidity



- Stable orange color after reflow and heat ageing for easy identification of high voltage applications
- Possibility of lightweight due to the reduction of creepage distance to design smaller connectors while maintaining safety





Material's comparative tracking index (CTI)



PA9T-GF35(\*2)

PA6T/XT-GF35

600

PA4T-GE30

 A more stable dielectric strength, even after water absorption at high temperatures, compared to other P(P)As which provides more safety margin. Data below compares UL94 V0 grades.

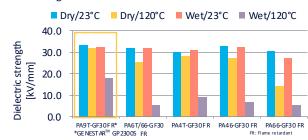
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(\*1)GENE STAR GP 245 ONH (\*2)GENE STAR G13 50A FR: Flame retardant

100-174

IEC 60112

Πh



 Blister resistance due to low moisture absorption, which reduces rejection rate during SMT process

ReflowPeak temp. (°C)	230	240	250	260	265
PA9T*	OK	OK	OK	OK	ОК
PA4T	OK	OK	NG	NG	NG
PA6T/XT	ОК	NG	NG	NG	NG
PA46	NG	NG	NG	NG	NG

\*GE NEST AR™ GN2 330

If the information in this article is of interest to you, please find the contact details below to get in touch with us.

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