

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.

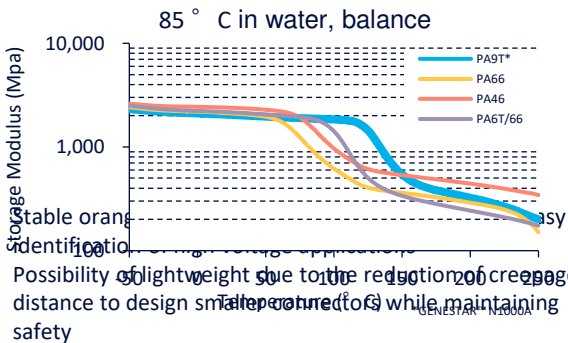
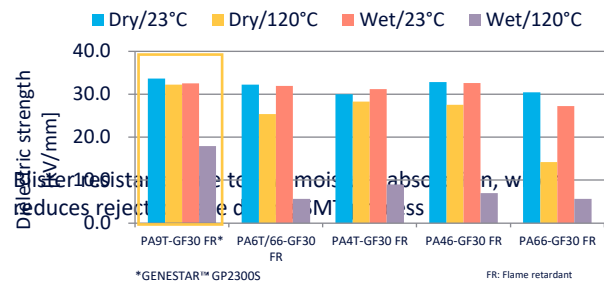
A similar trend can be applied to automotive applications. Due to electrification and lightweight, the trend is to move to surface mounting technology(SMT) and downsize parts while maintaining safety of the connectors.

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

Voltage (V)	Material group	Material	Material	Voltage(V)
>600	I	PPA	PA9T-GF45 FR(*1)	950
400-599	II	PPS	PA6T/66-GF30 FR	825
175-399	IIIa	PPS, LCP	PA4T-GF30 FR	750
100-174	IIIb		PA9T-GF35(*2)	775
			PA4T-GF30	600
			PA6T/XT-GF35	600

which provides more safety margin
UL94 V0 grades



- Stable orange identification
- Possibility of lightweight structure due to the reduction of creepage distance to design smaller connectors while maintaining safety

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

Prius Platinum, 2nd Floor B Wing, Rear Side, D3 District Centre, Saket New Delhi-110017, India
Tel +91 120 6923800.

Email: genestar.in@kuraray.com

Website: www.genestar.kuraray.com/en/

- Material's comparative tracking index (CTI)

