

Heat Resistant Polyphthalamide (PPA) – Introduction

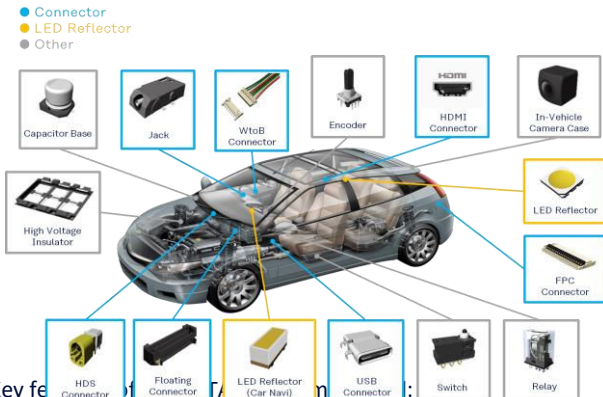


GENESTAR™ is a brand name of heat resistant polyamides developed by Kuraray. GENESTAR™ PA9T series are well-balanced long-chain polyphthalamide (PPA) that combines low water absorption and high mechanical properties over broad temperature range.

GENESTAR™ is the last polyphthalamide developed in the last century and it has been widely used in E&E and automotive applications. Some of the automotive applications that GENESTAR™ is adopted (not limited to) are depicted below:



Some of the E&E applications that GENESTAR™ was adopted (not limited to) is depicted below:



Key features of Genestar™ include:

- High heat resistance with melting temperature 306°C and

glass transition temperature 125°C

- Low water absorption among high temperature polyamides, which resulted in dimensional stability and blister resistance in surface mounting technology (SMT) process
- Ideal comparative tracking index (CTI) for possibility of downsizing electrical parts
- Abrasion properties against wear compared to other polyamides and PPS
- Chemical resistance against fuels, chemicals and solvents compared to other polyamides
- High laser transmittance to allow parts that need to be laser welded to have good mechanical strength, compared to other polyamides and PPS
- Fuel barrier properties that can meet international standards for fuel lines
- Low ion permeation that provides longer life for batteries and critical EV parts
- Retaining of mechanical properties at wide range of temperature and humidity against other polyamides

GENESTAR™ has sales office worldwide – Japan, China, Korea, Belgium, Germany, USA, Brazil, Singapore and India. We offer support in part design, injection molding, part analysis as well as data support for your designs. We look forward to hearing from you to provide our advice in your design and to provide you with the insights of the advantages of using GENESTAR™ in your design.

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

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