

Genestar™

GENESTAR™ PA9T for Thermal Management Modules



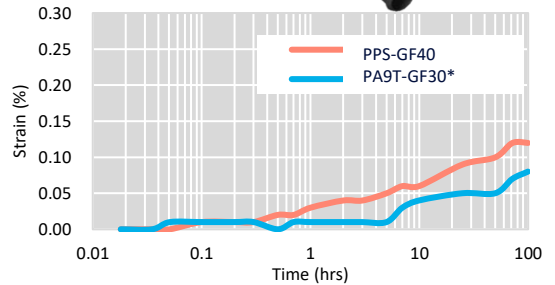
GENESTAR™ is a brand name of heat resistant polyamide developed by Kuraray. GENESTAR™ PA9T series in that brand is a well-balanced long-chain polyphthalamide (PPA) that combines low water absorption and high mechanical properties over a broad temperature range.

With ever-tightening regulations and customer demands for improvements in emissions and reduced fuel consumption, thermal management modules are essential parts in automobiles. A thermal management module is an electronically controlled thermostat that uses rotary valves to regulate the flow of coolant.

GENESTAR™ PA9T offers the following advantages (not limited to) for thermal management modules in order to achieve reduction in carbon dioxide emissions, enhanced range extension, cost savings, integration of functions and design freedom:

- Weight reduction potential against current materials, which leads to cost savings

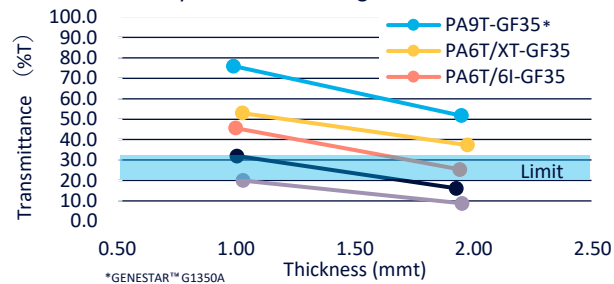
• Creep resistance



*GENESTAR™ G1300A

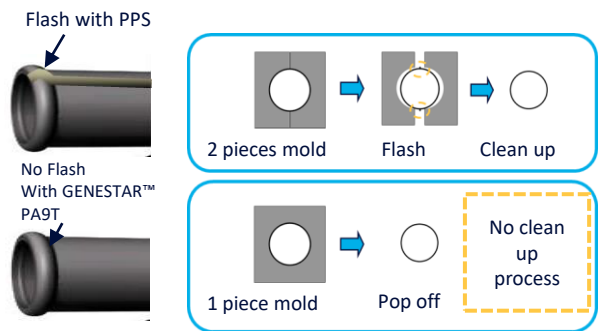
*Specimen: ISO 20753 type A1; temperature: 80 °C; load: 48 MPa

• Laser weldability and laser marking



*GENESTAR™ G1350A

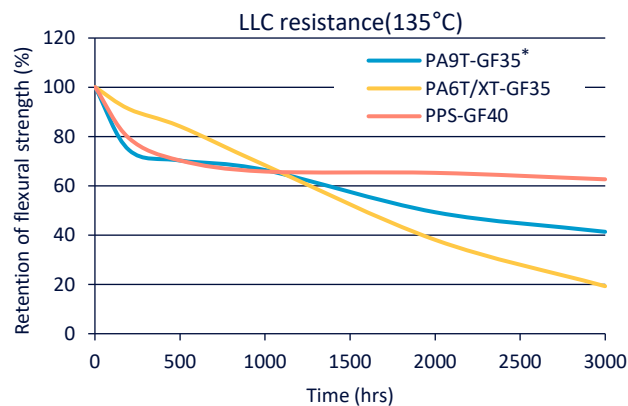
• Forced demolding / extraction



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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	Unit	GENESTAR™ PA9T-GF35	PPS-GF30	PPS-GF40
Specific gravity	g/cm ³	1.40	1.55	1.65
Volume of 1 part(example)	Cm ³	10	10	10
Weight of 1part	g	14.0	15.5	16.5
Number of part per 25kg bag	Pcs	1,785	1,612	1,515
Percentage more than GENESTAR™ PA9T	%	-	10	18



*GENESTAR™ G1350A

