

Technical Literature I-02

Outgassing from AURUM[®]

AURUM[®] outgassing measurement values^{*1} for both GF- and CF-reinforced grades meet the NASA-recommended values^{*2}.

*1: Measured at the Tsukuba Space Center of the National Space Development Center of Japan.

*2: NASA-recommended values: TML: 1% or less; CVCM: 0.1% or less

(1) Samples

AURUM[®] 450, JGN3030, JCN3030
Cubes (3mm square)

(2) Testing Method

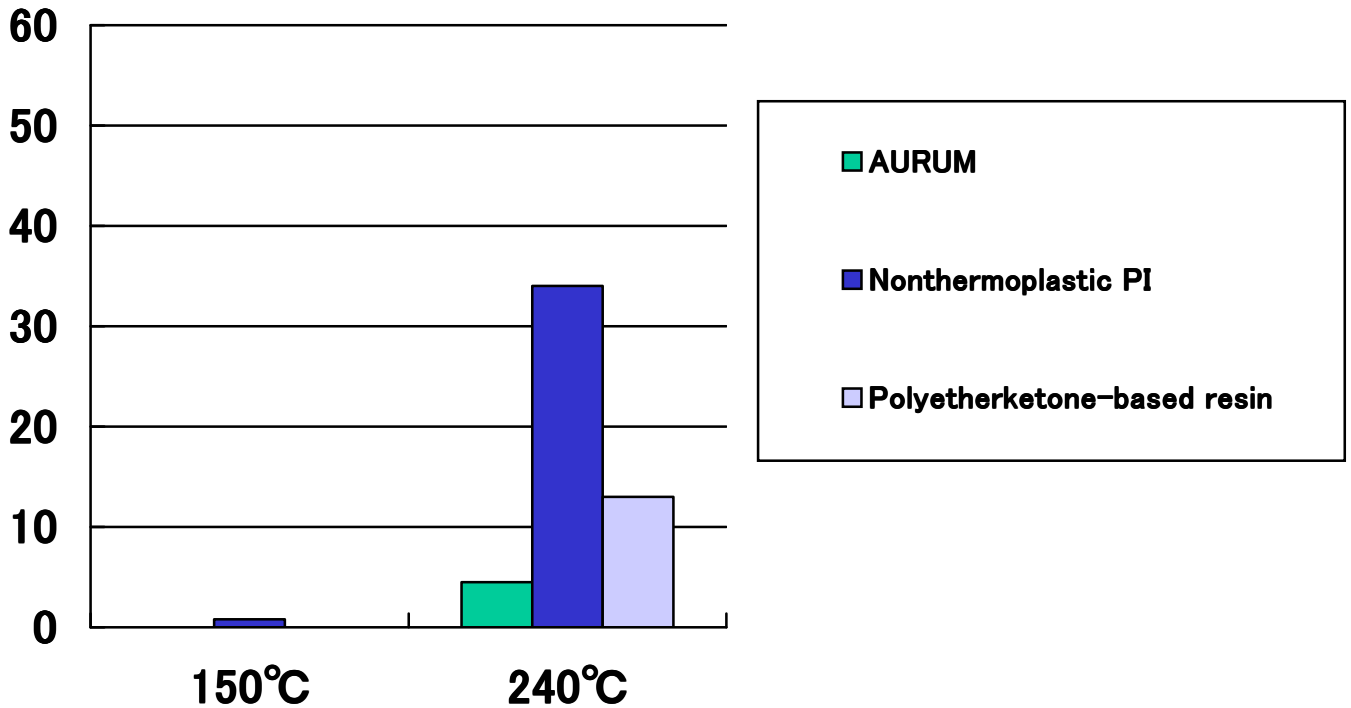
- Testing standards: Based on ASTM E595-77
- Testing conditions: Vacuum degree: 5x10⁻⁵ Torr or below
Heating rod temp.: 125 ± 1°C
Cooling plate temp.: 25 ± 1°C
Equipment operating time: 24 hrs

(3) Test Results

<u>Sample</u>	<u>TML (%)</u>	<u>CVCM (%)</u>	<u>WVR (%)</u>
AURUM [®] natural	0.587 ± 0.008	0.004 ± 0.001	0.309 ± 0.007
JGN3030	0.410 ± 0.002	0.008 ± 0.001	0.217 ± 0.003
JCN3030	0.463 ± 0.003	0.014 ± 0.004	0.235 ± 0.002

The information contained herein is based on the information and data available at this moment, but none of the data or evaluation results contained herein provide any warranty whatsoever.

The outgassing amount of AURUM[®] is smaller than other super engineering plastics, and AURUM[®] can be used for “clean” applications such as semiconductors.



The samples were heated to 150°C and 240°C and kept at the levels for 30 min. After that, the outgass was cold-tapped and analyzed by gas chromatography (using anthracene as the standard).

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