

Weight Loss under Elevated Temperature

In order to complete a crystallization of molded parts, post annealing is suitable. In this process, a very small quantity of gas is coming out from parts. The following is evaluation data in post annealing process.

1. Weight Loss

Weight loss of molded parts is shown in Figs.1 to 3. The measured specimen and annealing condition is as follows;

Part Size = 50 X 50mm X 2mm injection molded sheet.
Post annealing temperature; 150C, 200C and 250C

2. Content of Out-Gas

Main component of outgas at 150 to 200C are H₂O (moisture) and CO₂, additionally small amount of the following components are investigated.

At 150C annealing-----Xylene, Dichlorobenzene, and others

Over 200C annealing-----Toluene, Xylene, Phenol, Dichlorobenzene, and others

Also, Fig.4 shows the data analyzed by gas-Chromatograph. In other hand, if temperature is up to 250C, very small amount of SO₂ may be investigated.

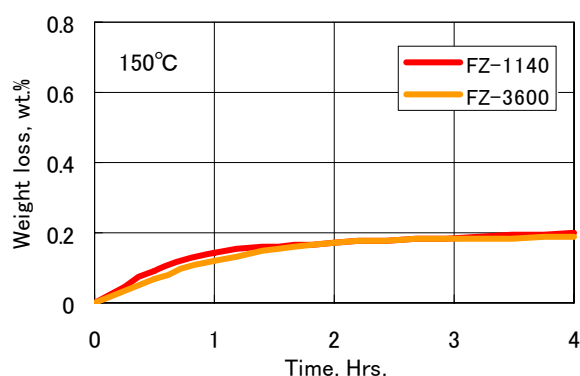


Fig.1 Weight loss at 150°C.

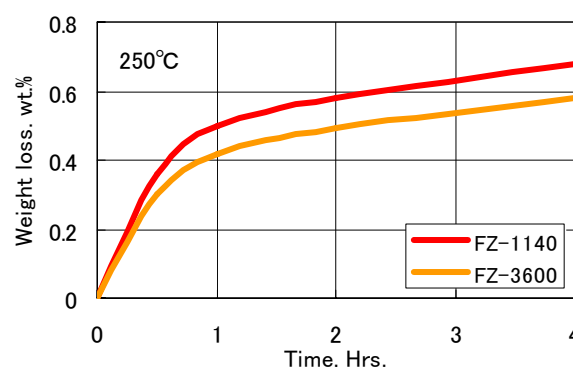


Fig.3 Weight loss at 250°C.

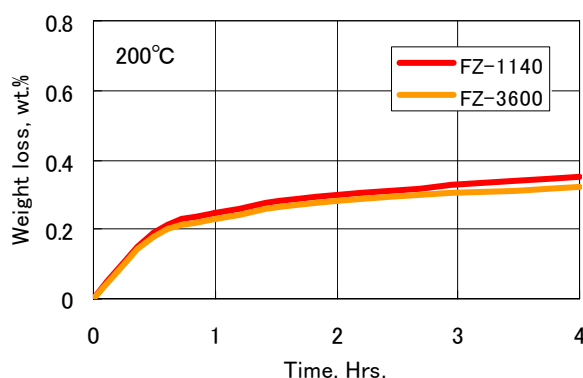


Fig.2 Weight loss at 200°C.

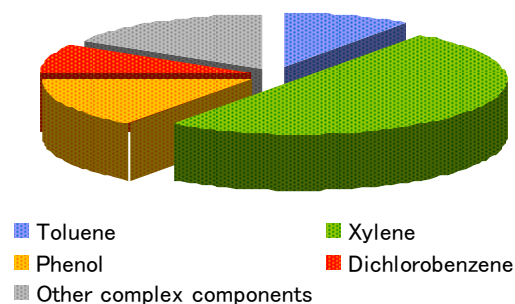


Fig.4 Off-gas components of FZ-1140 at 200°C/15min.



★Please refer to Material Safety Data Sheet for safety precautions prior to use. The information contained in this data sheet is based on tests or research DIC Corporation ("DIC") believes to be reliable, but no warranty is given by DIC concerning the accuracy or completeness thereof. The supply of the information does not release the recipient from the obligation to test the products as to their suitability for the intended applications and processes. DIC has no liability for any consequence of the application, processing or use of the information or the products. Information concerning the application of the products is not and should not be construed as a warranty as to non-infringement of intellectual property for a particular application.