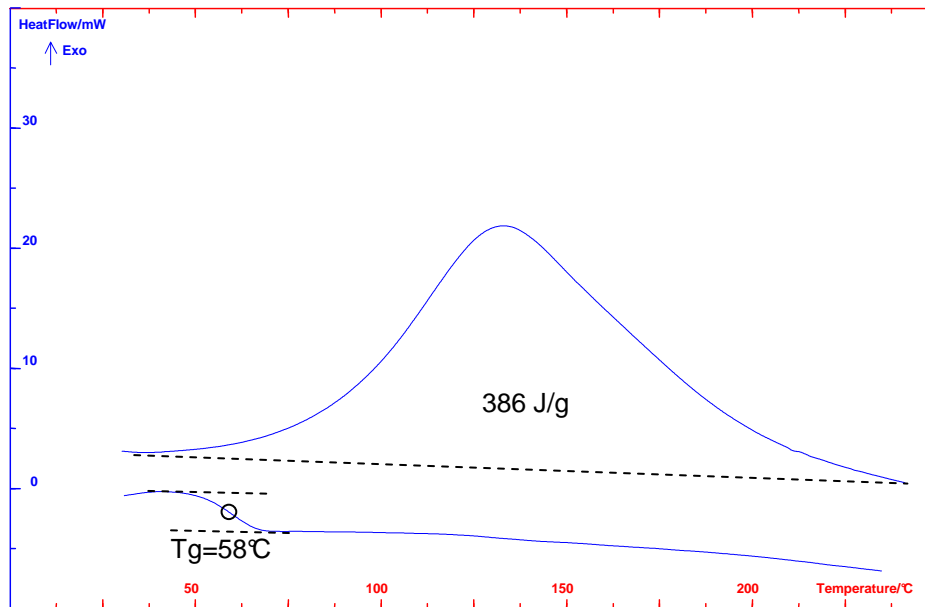


Curing of an epoxy resin

Introduction

The control of curing of epoxy resin is a very common test in the field of polymers : it enables to evaluate the curing rate of a resin and to determine its glass transition. DSC131 with its great facility to perform such analyses is a particularly adapted tool.



Experimental

Sample : epoxy resin

Mass : 25.2 mg

Crucible : Al

Experimental procedure : Two successive heating at 10 K/min.

Conclusion

During the first heating, the curing of the resin leads to an exotherm. By integrating this isotherm it is possible to do comparative measurements with a resin with a known curing rate and then to determine the curing rate of the resin. During the second heating, the glass transition of the cured material is observed.

Instrument

DSC 131 evo

-170 up to 700°C



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