

DSC Measurements of Lipsticks

1. Introduction

Thermal analysis is very useful when applied to the development and analysis of cosmetics. This brief describes DSC evaluation of lipstick qualities based on the melting of the fats and oils which are the main content of lipsticks.

2. Methods and Data

Figure 1 shows DSC profiles of 4 different kinds of lipsticks measured in hermetically sealed sample containers. Each product shows a different profile. The endothermic peaks shown for all of the samples are from the melting of the fats and oils in the lipsticks.

This data can be interpreted as meaning that Lipstick B spreads well and that Lipstick D wears well.

3. Conclusions

DSC analysis can be used to determine the spreading qualities and wear qualities of lipsticks and other cosmetics.

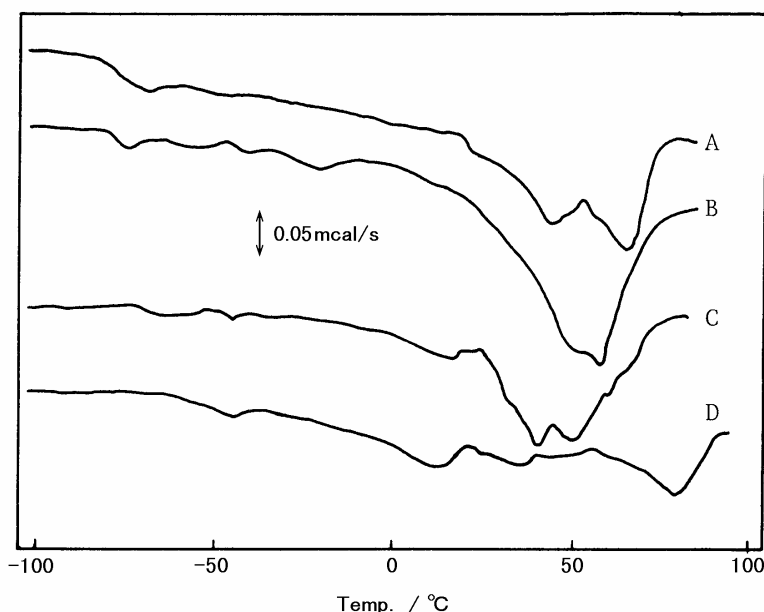


Figure 1 DSC curves of lipsticks
Sample weight : 10mg
Heating rate : 10°C/min