Featured Technical Articles

Isothermal Crystallization Using the Q Series™ DSC and NEW Liquid Nitrogen Cooling System
Dr. Roger L. Blaine

The Q Series™ Differential Scanning Calorimeters (DSC’s), when used with the closely coupled Liquid Nitrogen Cooling System (LNCS), provide the high cooling rates, rapid temperature equilibrium and accurate specimen temperature measurements needed to perform isothermal crystallization. Full Story

Using Rheology to Predict PSA Performance
Steven R. Aubuchon, Ph.D.

The mechanical and rheological properties of pressure sensitive adhesives (PSAs) dictate their long-range performance. Controlled stress rheology is shown to be an effective technique in engineering, evaluating and predicting PSA performance. Full Story

Practical Benefits of Using Heat Capacity Versus Heat Flow Signals
Leonard C. Thomas

While Differential Scanning Calorimetry (DSC) is well established for characterizing transitions in materials, overlapping thermal events can complicate the analysis. This paper highlights the practical benefits of using heat capacity rather than heat flow signals to obtain improved accuracy of the heat associated with the transitions. Full Story

How Tzero™ Technology Improves DSC Performance
Part I: Flat Baselines and Glass Transition Measurements
Dr. Bruce Cassel

Abstract: When a weak glass transition (Tg) is measured by DSC, instrumental baseline effects, e.g., slope, curvature and noise excursions, can adversely affect Tg analysis and assignment of the Tg parameters. By using Tzero™ Technology, the Q series DSC reduces these effects, thus providing the increased DSC sensitivity to detect the Tg. Full Story

New Products — Thermal Analysis Rheology

TECH Talk

New Technical Literature

New Staff at TA Instruments

Conferences & Exhibitions

FREE Posters — Rheology Thermal Analysis

FREE Polymer Reference Card

PROMOTIONS

No Brainers  Asphalt Promo

DEMO DEALS