

Thermal Analyzer TG-DTA

Perkin Elmer STA 6000 offers you simultaneous measurement and analysis of weight change and heat flow. By combining flexible differential temperature analysis (DTA or DSC) with proven thermogravimetry (TG) technology, the STA 6000 enables you to generate accurate and reliable results while simplifying data interpretation.

Instrument Details	
Model	Simultaneous thermal analyzer STA-600 (Perkin Elmer)
Temperature range	15 °C - 1000 °C
Scanning rate	10 °C/min, 20 °C/min
Samples required	50 – 100 mg, Solid
Balance resolution	0.1 ug
Atmosphere	N ₂ , O ₂

Applications from the TGA: compositional analysis, decomposition temperatures, engine oil volatility, flammability studies, lifetime predictions, measurement of volatiles, oxidative and thermal stabilities, catalyst and coking studies, and hyphenation to identify out-gassing products.

Application from the DTA: melting and crystallization behavior, glass transition temperatures, specific heat capacity, kinetic studies and transition and reaction enthalpies.

