



2019 Catalog Laboratory Services

Thermal Analysis at your service

DSC, DTA, Calorimetry, TGA, TG-DTA, TG-DSC, TMA, Evolved Gas Analysis, Sorption



www.setaram.com

CHALLENGES

We listen to your needs to help you meet your challenges:

- Limited investment capabilities and resources
- Need to develop your knowledge of analysis techniques
- Qualification of processes
- Access to new markets
- Develop new products/methodology
- Control

SOLUTIONS

As you all have different needs, we offer:

- A versatile laboratory with a wide range of instruments, techniques and operational conditions:
 - DSC, DTA, TGA, TMA, Evolved gas analysis, Dilatometry, Manometry, Thermal Conductivity
 - -196°C to 2400°C, from vacuum up to 500 bar, a broad range of atmospheres
- Support from an experienced team:
 - Training
 - Analysis and Application support
 - Contract testing
 - Demonstrations

BENEFITS

Our solutions come from our vast experience. They will bring you added value :

- Increased autonomy/technical skills Operational
- Forward planning on operational Expenses
- Reduced time to market
- Reduced risk on capital investment – try before you buy
- Access to new techniques
- Qualification by an independent laboratory
- Increase your brand image

CONTRACT TESTING



Our resources and experience allow us to characterize all the thermal properties of your materials. We can also combine the techniques for an optimal analysis.

Contact us for the prices of our services by providing us with the following information:

- Temperature and speed range
- Isothermal time
- Atmosphere
- Sample type / Nb / Quantity

PROPERTIES	THERMAL EVENT T°	THERMAL EVENT T° & HEAT	MASS CHANGE	DIMENSION CHANGE	GAS ANALYSIS	SORBED GAS CONCENTRATIO	CONDUCTIVITY
Activation energy / Pre-exponential factor	•	✓	✓	•	•	•	•
Adsorption	✓	✓	✓	•	•	✓	•
Aggregation	•	✓	•	•	•	•	•
Carbon black content	•	•	✓	•	✓	•	•
Combustion	✓	✓	✓	•	✓	•	•
Compatibility	•	✓	•	•	•	•	•
Corrosion	•	✓	✓	•	•	•	•
Crystallization	✓	✓	•	•	•	•	•
Crystallinity rate	✓	✓	•	•	•	•	•
Curie point	✓	✓	•	•	•	•	•
Decomposition	✓	✓	✓	•	✓	•	•
Denaturation	•	✓	•	•	•	•	•
Desorption	•	✓	✓	•	✓	✓	•
Evaporation	✓	✓	✓	•	✓	•	•
Gelatinization	•	✓	•	•	•	•	•
Glass transition	✓	✓	•	✓	•	•	•
Hazard evaluation	✓	✓	✓	•	✓	•	•
Heat Capacity	•	✓	•	•	•	•	•
Heat of mixing	•	✓	•	•	•	•	•
Hydration / dehydration	✓	✓	✓	•	•	•	•
Loss of solvent	•	✓	✓	•	✓	•	•
Melting	✓	✓	•	✓	•	•	•
Oxidation Induction Time (O.I.T.)	•	✓	✓	•	•	•	•
Oxidation	✓	✓	✓	•	•	•	•
Phase transition	✓	✓	•	•	•	•	•
Polymerization	•	✓	•	•	•	•	•
Purity	•	✓	•	•	•	•	•
Pyrolysis	✓	✓	✓	•	✓	•	•
Reduction	✓	✓	✓	•	✓	•	•
Sintering	•	•	•	✓	•	•	•
Softening	•	•	•	✓	•	•	•
Solid Fat Index (SFI)	•	✓	•	•	•	•	•
Sublimation	✓	✓	✓	•	•	•	•
Thermal conductivity	•	•	•	•	•	•	✓
Thermal expansion coefficient	•	•	•	✓	•	•	•
Thermal stability	✓	✓	✓	✓	•	•	•
Wax Appearance Temperature (WAT)	•	✓	•	•	•	•	•
Young's modulus	•	•	•	✓	•	•	•
TECHNIQUES	DTA	DSC OR CALVET TYPE CALORIMETRY	TGA	TMA	EGA MS - FTIR OR GC/MS	MANOMETRY	MODIFIED TPS

The table is not exhaustive, please contact us to discuss your needs.

TRAINING

We can provide standard training sessions on the use of our Thermal Analyzers and Calorimeters, as well as customized training session to address your specific needs.

You can download our training catalog from on our website : www.setaram.com



CONTACT

SETARAM Laboratory
7, rue de l'Oratoire 69300 Caluire
emea.contract-testing@setaram.com
Tél : +33 (0)4 72 10 25 25



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