

R-TECH MATERIALS

Assured testing and materials expertise when safety, quality and integrity are the only option.

Thermal Analysis

Thermal analysis techniques are important to a variety of industries including both non-metallic materials, such as polymer matrix composites and metallic materials. Understanding the physical and kinetic properties of materials at different temperatures and through phase changes, is an important characteristic for design engineers when considering the end use of their products. R-TECH Material offers thermal analysis testing of your engineering materials using state of the art equipment from Perkin Elmer. Using these techniques we can determine the glass transition temperature (T_g), Coefficient of thermal expansion (CTE), degree of cure, melting point and other thermal properties.

Cryogenic Capabilities

Our state-of-the-art Perkin Elmer thermal analysers have a unique cryogenic capability, making it ideal for understanding materials working in extreme cryogenic temperatures, such as liquid hydrogen storage and MRI scanners.

- TMA between -150 and +800C
- DMA between -196 and +400C
- DSC between -100 and +450C



Accredited Testing

R-TECH Materials offers UKAS accredited testing for the following properties:

- Glass transition temperature to ISO 6721-11, ASTM D7028 and ISO 11357-2
- Coefficient of thermal expansion to ISO 11359-1/2 and ASTM E831
- Heat deflection temperature to ISO 75-2



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