



## High Pressure OIT Tester ( HPOIT , HP OIT )

### Description

Increased pressure influences all physical changes and chemical reactions in which a change in volume occurs. Study of thermal effects under pressure – increase the reaction rate or shift evaporation to higher temperature. High pressure differential scanning calorimetry allows you to measure samples under precisely defined atmospheres at pressures of up to 3.4 MPa as a function of temperature or time. Higher pressures and temperatures accelerate chemical reactions and shorten analysis times. Increased pressure is a factor that influences all physical changes and chemical reactions in which a change in volume occurs. For material testing, process development or quality control there is often no alternative to DSC measurements under pressure. Increased pressure suppresses vaporization and shifts the effect to higher temperatures. The high pressure differential scanning calorimetry (HPDSC) is an excellent instrument for studying the influence of pressure and atmosphere on a sample or for separating an effect that is overlapped by vaporization.

- As per ASTM D 5885
- Suitable for testing of geomembranes, geotextiles
- Simulates real process condition of materials
- Reduce of analysis time comparing normal DSC
- Pressure range up to 3.5 MPa
- High pressure causes higher gas concentration during testing
- Accuracy  $\pm 0.2K$
- Reproducibility  $\pm 0.1K$
- Heating rate up to 50K/min
- SS304 pressure vessel
- Including standard Tin, Ind pellets for calibration checkout
- 200pcs of aluminum pans
- RS485-usb converter
- Heating rate up to 50 C/min
- Automatic cycle control
- Automatic gas valves
- Making report templates as operator settings
- Data output for universal analyzer software like TA

- High sensitivity
- Calibration software
- Calculation of Onset points-Max-Min points-Slope analysis-...
- Graph analysis
- Data processing
- DSC-Temp-Time data saving
- Software CD
- User manual
- Capable of measuring OIT-DSC
- Temperature accuracy 0.1C
- Usable for OIT measurement and melting point
- N2 and O2 pressure regulator
- Power 220V-50Hz
- Training video

**AHP PLASTIK MAKINA**