

LAB REPORT: DIFFERENTIAL LIGHT SCANNING (DSC)

1. Title

Differential Scanning Calorimetry of Polymer Sample

2. Objective

To analyze the thermal transitions (melting point, crystallization, and glass transition) of a polymer sample.

3. Introduction

Differential Scanning Calorimetry (DSC) is a thermoanalytical technique used to measure heat flow as a function of temperature.

6. Results

Thermal Analysis Results for Polymer Sample

Glass Transition Temperature (T_g): 65°C

Melting Temperature (T_m): 150°C

Crystallization Temperature (T_c): 120°C

Enthalpy of Fusion: 45 J/g