

# ISO 11357-5:2025-05 (E)

## Plastics - Differential scanning calorimetry (DSC) - Part 5: Determination of characteristic reaction-curve temperatures and times, enthalpy of reaction and degree of conversion

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	2
5	Apparatus and materials .....	2
6	Test specimens .....	2
7	Test conditions and specimen conditioning .....	2
8	Calibration .....	2
9	Procedure .....	2
9.1	General .....	2
9.2	Temperature-scanning method .....	2
9.3	Isothermal method .....	3
9.3.1	General .....	3
9.3.2	Constant-temperature method .....	3
9.3.3	Procedure starting at ambient temperature .....	3
9.3.4	Residual enthalpy .....	4
10	Determination of results .....	4
10.1	Determination of characteristic temperatures and enthalpy of reaction (temperature-scanning method) .....	4
10.2	Determination of characteristic times and enthalpy of reaction (isothermal method) .....	4
10.3	Determination of degree of conversion .....	6
10.3.1	General .....	6
10.3.2	Calculation of from a temperature scan .....	6
10.3.3	Calculation of from an isothermal curve .....	8
11	Precision .....	9
12	Test report .....	9
Bibliography .....		10