

DIN EN ISO 11357-5:2025-09 (E)

Plastics - Differential scanning calorimetry (DSC) - Part 5: Determination of characteristic reaction-curve temperatures and times, enthalpy of reaction and degree of conversion (ISO 11357-5:2025)

Contents		Page
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 α from a temperature scan.....	6
10.3.3	Calculation of α from an isothermal curve.....	8
11	Precision	9
12	Test report	9
Bibliography		10