

# ISO 11357-5:2013-03 (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          |
| <b>1</b>                  | <b>Scope .....</b>   | <b>1</b>    |
| <b>2</b>                  | <b>Normative references .....</b>  | <b>1</b>    |
| <b>3</b>                  | <b>Terms and definitions .....</b>   | <b>1</b>    |
| <b>4</b>                  | <b>Principle .....</b>   | <b>1</b>    |
| <b>5</b>                  | <b>Apparatus and materials .....</b>   | <b>2</b>    |
| <b>6</b>                  | <b>Test specimens .....</b>  | <b>2</b>    |
| <b>7</b>                  | <b>Test conditions and specimen conditioning .....</b>   | <b>2</b>    |
| <b>8</b>                  | <b>Calibration .....</b>   | <b>2</b>    |
| <b>9</b>                  | <b>Procedure .....</b>   | <b>2</b>    |
| <b>9.1</b>                | <b>General .....</b>   | <b>2</b>    |
| <b>9.2</b>                | <b>Temperature-scanning method .....</b>   | <b>2</b>    |
| <b>9.3</b>                | <b>Isothermal method .....</b>   | <b>2</b>    |
| <b>10</b>                 | <b>Determination of results .....</b>  | <b>4</b>    |
| <b>10.1</b>               | <b>Determination of characteristic temperatures and enthalpy of reaction (temperature-scanning method) .....</b> | <b>4</b>    |
| <b>10.2</b>               | <b>Determination of characteristic times and enthalpy of reaction (isothermal method) .....</b>                  | <b>4</b>    |
| <b>10.3</b>               | <b>Determination of degree of conversion .....</b>   | <b>6</b>    |
| <b>11</b>                 | <b>Precision .....</b>   | <b>9</b>    |
| <b>12</b>                 | <b>Test report .....</b>   | <b>9</b>    |
| <b>Bibliography .....</b> |  | <b>10</b>   |