

# ISO 4907-4:2025-03 (E)

## Plastics - Ion exchange resin - Part 4: Determination of particle size by laser diffraction method

---

| <b>Contents</b> |                                                      | <b>Page</b> |
|-----------------|------------------------------------------------------|-------------|
|                 | <b>Foreword</b> .....                                | <b>iv</b>   |
| <b>1</b>        | <b>Scope</b> .....                                   | <b>1</b>    |
| <b>2</b>        | <b>Normative references</b> .....                    | <b>1</b>    |
| <b>3</b>        | <b>Terms, definitions and symbols</b> .....          | <b>1</b>    |
|                 | 3.1 Terms and definitions.....                       | 1           |
|                 | 3.2 Symbols.....                                     | 2           |
| <b>4</b>        | <b>Principle</b> .....                               | <b>2</b>    |
| <b>5</b>        | <b>Reagents</b> .....                                | <b>2</b>    |
| <b>6</b>        | <b>Apparatus</b> .....                               | <b>2</b>    |
| <b>7</b>        | <b>Pretreatment</b> .....                            | <b>2</b>    |
| <b>8</b>        | <b>Procedure</b> .....                               | <b>3</b>    |
|                 | 8.1 Instrument preparation.....                      | 3           |
|                 | 8.2 Testing parameter setting.....                   | 3           |
|                 | 8.3 Testing the sample.....                          | 3           |
| <b>9</b>        | <b>Calculation</b> .....                             | <b>4</b>    |
|                 | 9.1 Percent below specified lower size.....          | 4           |
|                 | 9.2 Percent above specified upper size.....          | 4           |
|                 | 9.3 Percent between specified range size.....        | 4           |
|                 | 9.4 Effective size.....                              | 4           |
|                 | 9.5 Median size.....                                 | 5           |
|                 | 9.6 Uniformity coefficient.....                      | 5           |
|                 | 9.7 Area-weighted mean size.....                     | 5           |
|                 | 9.8 Volume-weighted mean size.....                   | 5           |
| <b>10</b>       | <b>Repeatability</b> .....                           | <b>5</b>    |
|                 | 10.1 Repeatability of effective size.....            | 5           |
|                 | 10.2 Repeatability of median size.....               | 5           |
|                 | 10.3 Repeatability of uniformity coefficient.....    | 5           |
|                 | 10.4 Repeatability of area-weighted mean size.....   | 6           |
|                 | 10.5 Repeatability of volume-weighted mean size..... | 6           |
| <b>11</b>       | <b>Test report</b> .....                             | <b>6</b>    |