

# DIN EN 13956:2006-02 (E)

## Flexible sheets for waterproofing - Plastic and rubber sheets for roof waterproofing - Definitions and characteristics

---

| <b>Contents</b>   |  | <b>Page</b> |
|---|--|-------------|
| page  | Foreword .....   | 4           |
| 1   | Scope .....  | 5           |
| 2   | Normative references .....   | 5           |
| 3   | Terms and definitions .....  | 6           |
| 4   | Roofing system related characteristics .....                                       | 8           |
| 5   | Product characteristics .....  | 8           |
| 5.1   | General .....  | 8           |
| 5.2   | General characteristics .....  | 8           |
| 5.2.1   | Visible defects .....  | 8           |
| 5.2.2   | Dimensions, tolerances and mass per unit area .....                                | 8           |
| 5.2.3   | Watertightness .....   | 9           |
| 5.2.4   | Effects of liquid chemicals including water .....                                  | 9           |
| 5.2.5   | Fire performance .....   | 9           |
| 5.2.6   | Hail resistance .....  | 10          |
| 5.2.7   | Joint strength .....   | 10          |
| 5.2.8   | Water vapour properties .....  | 10          |
| 5.2.9   | Tensile properties (strength and elongation) .....                                 | 10          |
| 5.2.10  | Resistance to impact .....   | 10          |
| 5.2.11  | Resistance to static loading .....   | 10          |
| 5.2.12  | Tear resistance .....  | 10          |
| 5.2.13  | Resistance to root penetration .....   | 10          |
| 5.2.14  | Dimensional stability .....  | 10          |
| 5.2.15  | Foldability at low temperature .....   | 11          |
| 5.2.16  | Behaviour following exposure to UV radiation, elevated temperature and water ..... | 11          |
| 5.2.17  | Resistance to ozone .....  | 11          |
| 5.2.18  | Exposure to contact with bitumen .....   | 11          |
| 5.3   | Dangerous substances .....   | 11          |
| 6   | Evaluation of conformity .....   | 12          |
| 6.1   | General .....  | 12          |
| 6.2   | Type testing .....   | 12          |
| 6.3   | Factory production control (FPC) .....   | 12          |
| 6.3.1   | General .....  | 12          |
| 6.3.2   | Frequency of testing .....   | 13          |
| 7   | Product data sheet .....   | 13          |
| 8   | Marking, labelling and packaging .....   | 13          |
| Annex A (normative) Applicability of characteristics .....  |  | 14          |
| Annex B (normative) Initial type test and frequencies of testing for factory production control ..... |  | 16          |
| B.1   | Type testing .....   | 16          |
| B.2   | Testing for factory production control (FPC) .....                                 | 16          |

|   |           |
|---|-----------|
| <b>Annex C (informative) Information about chemical resistance .....</b>  | <b>17</b> |
| <b>Annex D (informative) Example of a product data sheet .....</b>  | <b>19</b> |
| <b>Annex E (informative) Typical materials, structure of sheets and roofing systems .....</b>   | <b>21</b> |
| <b>E.1 Typical materials .....</b>  | <b>21</b> |
| <b>E.1.1 General .....</b>  | <b>21</b> |
| <b>E.1.2 Plastics .....</b>   | <b>21</b> |
| <b>E.1.3 Rubbers .....</b>  | <b>21</b> |
| <b>E.1.4 Thermoplastic rubbers .....</b>  | <b>22</b> |
| <b>E.2 Installation .....</b>   | <b>22</b> |
| <b>E.3 Typical roofing systems .....</b>  | <b>23</b> |
| <b>Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU<br/>Construction Products Directive .....</b> | <b>25</b> |
| <b>ZA.1 Scope and relevant characteristics .....</b>  | <b>25</b> |
| <b>ZA.2 Procedure for attestation of conformity of plastic and rubber sheets .....</b>  | <b>26</b> |
| <b>ZA.2.1 Systems of attestation of conformity .....</b>  | <b>26</b> |
| <b>ZA.2.2 EC Certificate and declaration of conformity .....</b>  | <b>29</b> |
| <b>ZA.3 CE marking and labelling .....</b>  | <b>29</b> |
| <b>Bibliography .....</b>   | <b>32</b> |