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|------------------|--|---|
| Product:         | ISOCON EXTRA non-vapour-permeable underlay   |  |
| Supplier:        | MASTERPLAST International Kft., 8143 Sárszentmihály, Árpád u. 1/a. (www.masterplastinternational.com)  |   |
| Size, packaging: | 1,5m×50m=75m <sup>2</sup> /roll  |   |
| Application:     | Non-vapour permeable underlay for discontinuous roofings. Used as a subsidiary protective layer against moisture (liquid water penetration, wind-blown snow) and wind in cold ventilated or in hybrid warm (roof with insulated attic) pitched roof structures. Proper ventilation gap between the underlay and the thermal insulation is necessary! The product must be laid parallel to the eaves with minimum 15cm overlapping. The underlay is fixed along the rafters with counter battens (min. 50/50mm). These battens lift the tiling battens off the underlay and create an effective drainage path to the eaves. |   |
| Material:        | Coated, Polyethylene fabric with white non-woven polypropylene backing.  |   |

| Properties  | Relevant standards         | Technical data                             |
|---|----------------------------|--|
| Length  | EN 1848 - 2                | 50m (-) 0%                                 |
| Width   | EN 1848 - 2                | 150cm (-)0,5% / (+)1,5%                    |
| Straightness  | EN 1848 - 2                | < 30 mm/10m                                |
| Mass per unit area                                    | EN 1849 - 2                | 140g/m <sup>2</sup> (±10g/m <sup>2</sup> ) |
| Reaction to fire                                      | EN 13501-1, EN ISO 11925-2 | F  |
| Resistance to water penetration                       | EN 1928, Method A          | W1   |
| Water vapour transmission (Sd)                        | EN 1931                    | 55 m (±)30%                                |
| Tensile strength (MD/XD)                              | EN 12311-1                 | 550 N/5cm (±)10% / 450 N/5cm (±)10%        |
| Elongation at maximum tensile force (MD/XD)           | EN 12311-1                 | 20% / 15%                                  |
| Resistance to tearing (MD/XD)                         | EN 12310-1                 | 200 N (±)10% / 200 N (±)10%                |
| Flexibility at low temperature                        | EN 1109                    | (-)20°C                                    |
| <b>Changing of properties after artificial ageing</b> |                            |  |
| Resistance to water penetration                       | EN 1928, Method A          | W1   |
| Tensile strength (MD/XD)                              | EN 12311-1                 | max. 25% / max. 25%                        |
| Elongation (MD/XD)                                    | EN 12311-1                 | max. 25% / max. 25%                        |
| <b>Additional properties</b>                          |                            |  |
| Temperature resistance                                |                            | (+)70°C                                    |
| Resistance to UV                                      |                            | max. 1 month                               |

**Storage and handling**

Under dry conditions, protected against atmospheric exposure, especially sun-radiation and other heat sources as well as against moisture and rain.

**Guarantee, warranty**

In accordance with the current legislations and the conditions of the distributor. The observation of the application rules of the product and presentation of the invoice constitute a prerequisite for possible future warranty claims. The installed underlay should not be left uncovered for longer than it is absolutely necessary (max. 2 weeks), but until finishing the covering, application of additional waterproofing (e.g. PE foil) is advised to ensure the protection of interiors against wetness. Masterplast International Kft. shall be not liable for damages and neither for consequential damages resulting from water infiltration through the underlay during the construction period. Any damaged areas (result from construction, carelessness, weather conditions) shall be repaired or replaced before completion!

**Standards, specifications**

EN 13859-1

**Health and safety**

No labelling required in accordance with the relevant regulation (EC) No. 1907/2006 of the European Parliament and of the Council.

This datasheet corresponds to our current knowledge, experiences and general informations on the subject, but may be revised as new knowledge and/or experience becomes available. It does not imply any legally binding assurance. The product possesses the given technical characteristics. Since all variations of end-using of the product can not be anticipated, the designer/end-user's responsibility to make sure of the suitability of this product for particular purposes, structures. The manufacturer supposes essential technical skill and skillfull application during construction.

**This technical datasheet is applied to products sold by Masterplast International Kft. and valid until withdrawal or until modification.** Since this datasheet may be subject to revision, it is the responsibility of designer/end-user to make sure of possessing the latest version of the datasheet (\*see date of issuing). Most recent version of this datasheet can be also accessed under www.masterplastinternational.com. Herewith the previously issued versions of this datasheets lose their validity and must be replaced by this version!