# Technical Data ISO-DRAIN Special Sheets

ISO-DRAIN

| | Property | Standard/Norm | Unit | ISO-DRAIN eco 2+2 G | ISO-DRAIN eco 2+2 GS | ISO-DRAIN eco 4+4 G | ISO-DRAIN eco 4+4 GS | ISO-DRAIN eco 8 G | ISO-DRAIN eco 8 GS | ISO-DRAIN eco 10 G | ISO-DRAIN eco 10 GS | ISO-DRAIN eco 20 G / eco 20 GP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Core Product** | Resin | --- | --- | HDPE | HDPE | HDPE | HDPE | HDPE | HDPE | HDPE | HDPE | HDPE |
| | Colour | --- | --- | black | black | black | black | black | black | black | black | black |
| | Area weight | DIN EN 12127 | g/m² | 400 | 400 | 600 | 600 | 500 | 500 | 600 | 600 | 1.000 |
| | Dimple height | --- | mm | 2+2 | 2+2 | 4+4 | 4+4 | 8 | 8 | 10 | 10 | 20 |
| | Dimple spacing | --- | pcs/m² | 22,500 | 22,500 | 10,000 | 10,000 | 1,860 | 1,860 | 3,364 | 3,364 | 400 |
| | Air gap (between dimples) | --- | l/m² | 2.0 | 2.0 | 5.5 | 5.5 | 5.3 | 5.3 | 7.9 | 7.9 | 14 |
| | Compressive strength | EN ISO 25619-2 | kN/m² | 370 | 370 | 280 | 280 | 250 | 250 | 420 | 420 | 240 |
| | Dimensions | --- | m | 2.20 x 20,00 | 2.20 x 20,00 | 2.00 x 20,00 | 2.00 x 20,00 | 2.00 x 20,00 | 2.00 x 20,00 | 2.00 x 12.50 | 2.00 x 12.50 | 2.00 x 12.50 |
| **Lamitation 1** | Resin | --- | --- | PP | PP | PP | PP | PP | PP | PP | PP | PP |
| | Area weight | DIN EN 12127 | g/m² | 100 | 100 | 110 | 110 | 110 | 110 | 136 | 136 | 136 |
| **Lamitation 2** | Resin | --- | --- | --- | PE | --- | PE | --- | PE | --- | PE | --- |
| | Area weight | DIN EN 12127 | g/m² | --- | 100 | --- | 100 | --- | 100 | --- | 100 | --- |
| **Geotextile** | Tensile Strength | EN ISO 10319 | kN/m | 8.0 | 8.0 | 7.0 | 7.0 | 7.0 | 7.0 | 9.0 | 9.0 | 9.0 |
| | Puncture (CBR) | EN ISO 12236 | N | 1,240 | 1,240 | 1,000 | 1,000 | 1,000 | 1,000 | 1,250 | 1,250 | 1,250 |
| | Dynamic cone puncture | EN 918 | mm | 34 | 34 | 35 | 35 | 35 | 35 | 29 | 29 | 29 |
| | Opening size | EN ISO 12956 | µm | 120 | 120 | 140 | 140 | 140 | 140 | 120 | 120 | 120 |
| | Permeability | EN ISO 11058 | $10^{-3}$ m/s | 110 | 110 | 70 | 70 | 70 | 70 | 50 | 50 | 50 |
| **Perforation** | Diameter of perforation | --- | mm | --- | --- | --- | --- | --- | --- | --- | --- | 3 (20 GP) |
| **Geocomposite** | Area weight | EN ISO 9864 | g/m² | 500 | 600 | 710 | 810 | 610 | 710 | 740 | 840 | 1,140 |
| | Drainage capacity | EN ISO 12958, i=1 | l/(ms) | 0.5 | 0.5 | 0.84 | 0.84 | 2.1 | 2.1 | 3.5 | 3.5 | 7.5 |
| | Tensile strength (MD) | EN ISO 10319 | kN/m | 12.0 | 12.0 | 13.6 | 13.6 | 15.1 | 15.1 | 15.4 | 15.4 | 19.2 |
| | Tensile strength (CMD) | EN ISO 10319 | kN/m | 13.0 | 13.0 | 14.7 | 14.7 | 15.1 | 15.1 | 16.8 | 16.8 | 20.8 |
| | Strain at maximum load | EN ISO 10319 | % | 42 | 42 | 50 | 50 | 42 | 42 | 50 | 50 | 60 |
| | CE Certificate | EN ISO 13252 | --- | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| **General** | Service temperature range | --- | °C | -40 - +80 | | | | | | | | |
| | Storage | --- | --- | protect from UV radiation | | | | | | | | |
| | Physiological properties | --- | --- | resistant to a wide range of chemicals, resistant to fungus and bacteria attack, impervious to root penetration, rot proof | | | | | | | | |

All figures are to be understood as approximate values. Evaluation of suitability for any specific application is always the sole responsibility of the customer.

Technical modifications reserved (ver5 - 03.2016)

Interplast Kunststoffe GmbH · Heinrich-Schickhardt-Straße 1 · 72221 Haiterbach (Germany) · Telephone: +49 (0)7456 93008-0 · Telefax: +49 (0)7456 93008-86 · info@interplast.de · www.interplast.de

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ISO-DRAIN

| | Property | Standard/Norm | Unit | ISO-DRAIN 3 F | ISO-DRAIN 3 M | ISO-DRAIN eco 8 F | ISO-DRAIN 8 M |
|---|---|---|---|---|---|---|---|
| **Core Product** | Resin | --- | --- | HDPE | HDPE | HDPE | HDPE |
| | Colour | --- | --- | yellow | yellow | black | translucent |
| | Area weight | DIN EN 12127 | g/m² | 500 | 500 | 600 | 600 |
| | Dimple height | --- | mm | 3 | 3 | 8 | 8 |
| | Dimple spacing | | pcs/m² | 2,500 | 2,500 | 1,150 | 1,150 |
| | Air gap (between dimples) | --- | l/m² | 3.6 | 3.6 | --- | 5.5 |
| | Compressive strength | EN ISO 25619-2 | kN/m² | 320 | 320 | 200 | 185 |
| | Dimensions | --- | m | 1.00 x 30.00<br>2.00 x 30.00 | 1.00 x 30.00<br>2.00 x 30.00 | 2.00 x 20.00<br>--- | 2.00 x 10.00<br>--- |
| **Lamitation 1** | Resin | --- | --- | --- | --- | PE | --- |
| | Thickness | ISO 1923 | mm | --- | --- | 3 | --- |
| **Lamitation 2** | Resin | --- | --- | PE | PE | --- | PE |
| | Area weight | DIN EN 12127 | g/m² | --- | 45 | --- | 45 |
| | Thickness | ISO 1923 | mm | 3 | --- | 3 | --- |
| **Mesh** | Tensile Strength | EN ISO 13934-1 | N/5 cm | --- | 400 | --- | 400 |
| | Elongation | EN ISO 13934-1 | % | --- | > 10 | --- | > 10 |
| **Foam** | Gross density | ISO 845 | kg/m³ | 33 | --- | 33 | --- |
| | Water absorption after 28 days | EN ISO 2896 | Vol. % | < 1 | --- | < 1 | --- |
| **Composite** | Area weight | EN ISO 9864 | g/m² | 530 | 550 | 630 | 650 |
| | Footfall sound reduction value | ISO 140-8 | dB | 30 | --- | 30 | --- |
| | CE Certificate | EN ISO 13967 | --- | yes | yes | yes | yes |
| **General** | Service temperature range | | °C | -40 - +80 | | | |
| | Storage | | --- | protect from UV radiation | | | |
| | Physiological properties | | --- | resistant to a wide range of chemicals, resistant to fungus and bacteria attack, impervious to root penetration, rot proof | | | |

All figures are to be understood as approximate values. Evaluation of suitability for any specific application is always the sole responsibility of the customer.

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