

# airofom® Foamed Polyethylene Sheet

## Specific advantages

- Non-crosslinked HCFC-free expanded Polyethylene sheet (LDPE)
- Closed cell structure with extrusion skin
- Low water absorption and water-vapour transmission rate
- Very good resistance to solvents, fuel oil and other chemicals
- High resiliency and flexibility
- Excellent cushioning behaviour
- Temperature stability from -40 to +70°C
- Good thermal ( $\lambda$ ) and impact sound insulation properties ( $\Delta L_w$ )
- 100% recyclable and physiologically safe, without flexibiliser, plasticiser, silicone

## Technical data

| Properties                                      | Methods            | Units             | airofom |       |       |       |
|---|--------------------|-------------------|---------|-------|-------|-------|
|   |                    |                   | 1       | 2     | 5     | 10    |
| Thickness                                       | DIN 53570 ISO 1923 | mm                | 1       | 2     | 5     | 10    |
| Density   | DIN 53420 ISO 845  | kg/m <sup>3</sup> | 22      | 20    | 20    | 20    |
| Tensile strength length direction               | DIN 53571 ISO 1798 | N/mm <sup>2</sup> | 0.55    | 0.35  | 0.35  | 0.30  |
| Tensile strength cross direction                | DIN 53571 ISO 1798 | N/mm <sup>2</sup> | 0.30    | 0.25  | 0.20  | 0.20  |
| Elongation at break length direction            | DIN 53571 ISO 1798 | %                 | 40      | 70    | 80    | 80    |
| Elongation at break cross direction             | DIN 53571 ISO 1798 | %                 | 45      | 45    | 60    | 70    |
| Compressive stress at 25% deformation           | DIN 53421 ISO 844  | N/mm <sup>2</sup> | 0.02    | 0.02  | 0.02  | 0.02  |
| Compressive stress at 50% deformation           | DIN 53421 ISO 844  | N/mm <sup>2</sup> | 0.07    | 0.08  | 0.07  | 0.07  |
| Compression set after 25%/22h                   | DIN 53572 ISO 1856 | %                 | 5       | 5     | 5     | 5     |
| Water-vapour resistivity factor $\mu$ (Air = 1) | DIN 52615 ISO 1663 | -                 | -       | 4100  | 2900  | -     |
| Water absorption 7 days immersion               | DIN 53433 ISO 2896 | Vol-%             | <2      | <2    | <2    | <2    |
| Thermal conductivity $\lambda$ at 10°C mean     | DIN 52612 ISO 8301 | W/m.K             | -       | 0.045 | 0.045 | 0.050 |
| Burning behaviour                               | DIN 4102           | Class             | B 3     | B 3   | B 3   | B 3   |
| Dynamic Stiffness                               | DIN 52214          | MN/m <sup>3</sup> | -       | 50    | 50    | -     |

- These technical data are typical values and not to be considered specification values.
- To meet specific requirements airofom foamed PE sheet can contain protective additives like fire-retardants, UV-light stabilizers or anti-statics.

## Product range

| Thickness:                                    | Width of rolls:                | Length and area:                          |
|---|--------------------------------|---|
| 0.8 - 20 mm<br>Multilayer laminate on request | 80mm - 2000mm<br>or on request | List of standard dimensions<br>on request |

- Standard colour is natural white.
- Coloured material is available on request for a minimum order size.