

Aglas SS

is a new material, specially developed for noise protection barriers

Aglas SS is an alternative to similar commercially available acrylic materials that have been crucial parts in noise protection barriers building from 1980, when it was employed, till now. It was also developed by Akripol d.d. from Slovenia and is being offered to the market in 2006 for the first time.

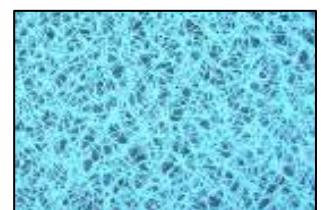
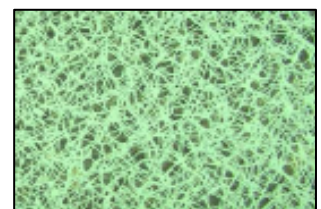
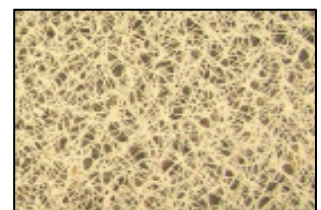
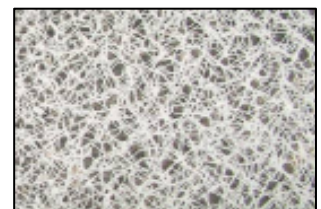
Aglas SS sheets are specially developed for noise protection barriers; the material possesses excellent resistance to weathering and aging as well as mechanical properties. It is lightweight and easy to form thermally and fabricate. It can also be used as decoration panels or protection barriers as in balconies, fences, stairways, elevators ...

The legal regulations that apply to **Aglas SS** are German ZTW-Lsw 88 and European EN ISO 7823, EN 1793, EN 1794 and EN ISO 140-3 standards.

Aglas SS is available in different modifications to meet a wide range of requirements:

Aglas SS are large-sized, highly transparent cast acrylic sheets. Clear graded sheets transmit over 90 percents of visible light spectra. Aglas SS is available in various transparent and hiding colours.

Aglas SS PA6 are large sized, highly transparent cast acrylic sheets with incorporated polyamide threads. These little threads hold together any fragments, being caused due to sheet breakage during an accident, and prevent them from falling down. Aglas SS PA6 is available in clear grade as well as in various transparent and hiding colours. The polyamide threads can also be coloured in various shades on request.



| Type | Thickness in mm | Size in mm * | Miscellaneous |
|--------------|-----------------|--------------|---|
| Aglas SS | 8 | 2000 x 1200 | Various thickness, various transparent and hiding colours |
| | 10 | 1910 x 1910 | |
| | 15 | 2510 x 1810 | |
| Aglas SS PA6 | 8 | 2000 x 1200 | With polyamide various colour threads , various transparent and hiding colours |
| | 10 | 1910 x 1910 | |
| | 15 | 2510 x 1810 | |

* We can also offer you other sizes, which depend on the requested quantity.

We offer:

Dimensioning of sheets and sheet's thickness
 Fabricating and thermoforming
 Technical support
 Supplying in accordance to customer specifications
 Delivery to the building-site and mounting
 Accepting old sheets in return and recycling.



| | Aglas SS | Aglas SS PA6 | Unit | Test method |
|---|------------------------|------------------------|-------------------|----------------|
| Tensile strength | 75 | 75 | MPa | ISO 527-2/1B/5 |
| Elongation at break | 4,3 | 4,3 | % | ISO 527-2/1B/5 |
| Elastic modulus | 3110 | 3110 | MPa | ISO 527-2/1B/1 |
| Flexural strength | 118 | 118 | MPa | ISO 178 |
| Charpy impact | 19,8 | 19,8 | kJ/m ² | ISO 179/1fU |
| Hardness, Rockwell | 97 | 97 | skala M | ISO 2039/2 |
| Vicat softening temperature | 105,3 | 105,3 | °C | ISO 306/B50 |
| HDT | 98 | 98 | °C | ISO 75-2/A |
| Dimens. stability at elevated temp. | 0,07 | 0,07 | % | ISO 7823-1 |
| Linear thermal expansion | 6,1 x 10 ⁻⁵ | 6,1 x 10 ⁻⁵ | K-1 | ZAG |
| Density | 1,19 | 1,19 | g/cm ³ | ISO 1183 A |
| Water absorption | 0,089 | 0,089 | % mas. | ISO 62 |
| Light transition of clear grade sheet | 91 | - | % | ZAG |
| Weighted sound reduction, index DL _R , 15 mm | 30 | 30 | dB | EN 1793-2 |
| Weighted sound reduction, category, 15 mm | B3 | B3 | - | EN 1793-2 |

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