

## Technical data - Transparent coloured PVC strip curtains

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| PROPERTY                      | STANDARD             | UNITS                 | STANDARD   | DESCRIPTION   |
|-------------------------------|----------------------|-----------------------|------------|---|
| Light transmittance           | ASTM D1003           | %                     | 0 to 80    | Visible light rate transmitted through the material.  |
| Shore A hardness              | ISO 868              | Sh A                  | 65 to 85   | Index based on a flat indenter's penetration depth. Scale from 0 (soft) to 100 (hard).                            |
| Tearing resistance            | DIN 53515            | N/mm                  | 28 to 65   | Minimum tensile stress required to tear a pre-slit sample.  |
| Tensile strength at break     | ASTM D638<br>ISO 527 | N/mm <sup>2</sup>     | 12 to 20   | Maximum tensile stress that a material can be subjected to before break.  |
| Elongation at break           |                      | %                     | 280 to 390 | Elongation of the specimen at the break point under tensile stress.   |
| Residual elong. (after break) |                      | %                     | 60 to 76   | Permanent elongation of the specimen measured after rupture in a tensile test.                                    |
| Thermal conductivity          | ASTM C177            | W/m·K                 | 0.16       | Ability to conduct heat. The lower it is, the more insulation.  |
| Cold bend brittle temp.       | ISO 8570             | °C                    | -20 to -40 | Temperature at which the specimen break under torsion stress. Brittle point (Clash & Berg).                       |
| Min. usage temperature        | DIN EN 1876          | °C                    | -15 to -25 | Temperature range where material keep its mechanical properties (flexibility).                                    |
| Max. usage temperature        |                      | °C                    | +30 to +50 |   |
| Vicat softening temperature   | ISO 306              | °C                    | 48 to 50   | Temperature at which the specimen is penetrated to a depth of 1 mm by a 1 kg flat indenter of 1 mm <sup>2</sup> . |
| Specific heat capacity        | ISO 11357            | kJ/kg·K               | 1.6        | Heat energy required to increase the temperature of one kilogram of the material by one degree Celsius.           |
| Sound reduction               | DIN 52210            | dB                    | >35        | Average sound level (frequency 0.1 to 3.2 kHz) decreased by a 1.76 m <sup>2</sup> and 5 mm thick PVC curtain.     |
| Reaction to fire              | EN 13501-1:2007      | Class                 | -          | Standard classifications of material self-extinguishing and resistance to combustion.                             |
| UV/IR filter                  | ISO EN 25980         | -                     | -          | Ability to filter welding rays allowing the use of this material as a welding protection screen.                  |
| UV resistance                 | ISO 4892             | -                     | Yes        | Ability to resist to UV (sun, welding arc).   |
| Surface resistivity           | ASTM D257            | .10 <sup>10</sup> Ω/□ | 30         | Material surface electric resistivity measured with a 100 V direct voltage.                                       |
| Water absorption              | ISO 62               | %                     | -0.2       | Material mass variation after exposure to humid conditions (<0 if released/ >0 if absorbed).                      |
| Anti-insect                   | -                    | -                     | No         | Special ability to keep insects away (food processing plants, tropical regions).                                  |
| Density                       | ASTM D792            | g/cm <sup>3</sup>     | 1.2 to 1.5 | Mass per unit volume.   |

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# Strip Curtain Solutions

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