SIMONA® PVC-MZ-COLOR
High impact strength and excellent thermoforming properties
High-strength sheets for all purposes – SIMONA® PVC-MZ-COLOR

SIMONA® PVC-MZ-COLOR rigid PVC sheets combine the favourable properties of their predecessors SIMONA® PVC-MZ and SIMONA® PVC-TF in a single formula.

Owing to their high impact strength, proven chemical resistance and excellent formability, SIMONA® PVC-MZ-COLOR sheets are the perfect choice not only for tank and apparatus construction but also for applications in the field of structural, advertising and automotive engineering.

**Excellent properties**
- Excellent formability with consistent wall thickness
- High impact strength even at low temperatures
- UV stability for outdoor use
- Excellent chemical resistance
- Extensive range of colours and various sizes
- Low flammability in thicknesses from 1 to 4 mm (company estimate)

**Versatile processing**
- Welding
- Glueing
- Deep-drawing
- Hot forming
- Bending
- Cutting
- Drilling
- Milling
- Sawing
- Riveting
- Bolting
- Water-jet cutting
- Printing
- Backing/laminating
- Spray painting
Product range and properties
SIMONA® PVC-MZ-COLOR

Diversity
SIMONA® PVC-MZ-COLOR is suited to the following applications:
- Window trims
- Door elements
- Ridge caps
- Ceiling trims
- Façade elements
- Tank and apparatus construction
- Machine covers
- Signs
- Shop window design
- Bucket seats for public transport
- Thermoformed vehicle components

High impact strength
Owing to their high impact strength, SIMONA® PVC-MZ-COLOR sheets offer superior safety and reliability during machining and in the final application, even at low temperatures.

Excellent thermoforming properties
SIMONA® PVC-MZ-COLOR has outstanding processing qualities. It is particularly suited to production methods such as hot forming and extreme deep-drawing requirements.

Product range SIMONA® PVC-MZ-COLOR

<table>
<thead>
<tr>
<th>Extruded sheets (thickness)</th>
<th>2000 x 1000</th>
<th>3000 x 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light grey</td>
<td>1 to 30</td>
<td>1.5 to 12</td>
</tr>
<tr>
<td>Black</td>
<td>1 to 8</td>
<td>1.5 to 6</td>
</tr>
<tr>
<td>White</td>
<td>1 to 8</td>
<td>1.5 to 6</td>
</tr>
<tr>
<td>Blue</td>
<td>1 to 8</td>
<td>1.5 to 6</td>
</tr>
<tr>
<td>Yellow</td>
<td>1 to 8</td>
<td>1.5 to 6</td>
</tr>
<tr>
<td>Red</td>
<td>1 to 8</td>
<td>1.5 to 6</td>
</tr>
</tbody>
</table>

Welding rods

<table>
<thead>
<tr>
<th>Type</th>
<th>round (RD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thicknesses</td>
<td>3 to 4</td>
</tr>
<tr>
<td>Colour</td>
<td>light grey</td>
</tr>
<tr>
<td>Supplied as</td>
<td>1 m rods in 2 kg units</td>
</tr>
</tbody>
</table>

Dimensions in mm.
Selection of sheets in various sizes and thicknesses available from stock.
## Material specifications

**SIMONA® PVC-MZ-COLOR**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density, g/cm³, ISO 1183</td>
<td>1.420</td>
</tr>
<tr>
<td>Tensile modulus of elasticity, MPa, DIN EN ISO 527</td>
<td>3100</td>
</tr>
<tr>
<td>Yield stress, MPa, DIN EN ISO 527</td>
<td>55</td>
</tr>
<tr>
<td>Notched impact strength (at +20 °C), kJ/m², DIN EN ISO 179</td>
<td>8</td>
</tr>
<tr>
<td>Notched impact strength (at –20 °C), kJ/m², DIN EN ISO 179</td>
<td>4</td>
</tr>
<tr>
<td>Shore hardness D, ISO 868</td>
<td>82</td>
</tr>
<tr>
<td>Fire behaviour, DIN 4102</td>
<td>low flammability 1 to 4 mm*</td>
</tr>
<tr>
<td>Temperature range, °C</td>
<td>-20 to +60</td>
</tr>
</tbody>
</table>

* company estimate