# Coated clear Polycarbonates visor material

## *Product Information Sheet*

**Products :** **SV Mat 6** **(code SV51118) : 1000 micron**
**SV Mat 11** **(code SV51117) : 1000 micron**

## *Applications*

Sheets perform well in optical tests and have extremely high optical transmission.
This information is given in good faith and is to be used only as a guide.

## Safe Handling
## Status under REACH

Not dangerous. The REACH regulation (1907/2006) does not require an EU safety data sheet or other communication in the supply chain concern-ing substances of very high concern (SVHC list of 13 January. 2010). As these films are "articles" under REACH, rather than a "substance" or "preparation", this document is not a "safety data sheet" as defined in the regulation.

### *Physical-chemical data*

**(general information, see technical data tables below for data on specific sheet)**
The odorless film is chemically stable and resistant to attack by oils, weak acids and weak alkalis.

### *Physical hazards*

Heavy gauges of polycarbonate can contain sharp edges. Proper protective gear, such as gloves, is recommended. Polyester film can create a slip hazard. Walking areas should be kept clear of spent visors

### *Health hazard data*

No adverse health effects have been attributed to polycarbonate sheet.

### *In case of fire*

The sheet will burn if exposed to flame, on its own it is self extinguishing, however if there is a secondary fuel or heat source, it may continue burning. Fire fighters should protect themselves from combustion and decomposition products that may include carbon monoxide, acetaldehyde and other toxic gases. Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists. Fire fighting extinguishing media include carbon dioxide, water spray, foam or dry chemical.

### *Dealing with molten sheet*

If the sheet could be subjected to conditions releasing acetaldehyde, then adequate ventilation should be used to stay below the exposure limit. Skin contact with molten film causes burns (due to the heat). Appropriate clothing and heat resistant gloves can be used as protection. If contact occurs accidentally, cool quickly with cold water and have the burn treated by a physician.

### *Disposal and shipping information*

Mechanical recycling is possible, provided a suitable collection scheme etc. were set up. Polycarbonate sheet is not classified as hazardous material for the purposes of transport by road, inland waterway, sea, air or mail. Polycarbonates /6 & /11 sheet is the standard grade of Polycarbonate sheet without UV protection, they both have anti mist ( also called anti fog) treatment to one side; /11 has a scratch resistant surface treatment; Coatings to EN166
All combine high impact and temperature resistance with optical clarity and can be utilized for visor production for operator safety.

### *Protective cling*

White for uncoated : Green for Anti anti mist : Clear for anti scratch
It is a low tack applied LDPE plain cling of our own design.

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## Typical Property Values ◆

| Property | | Test Method | Unit | Value |
|---|---|---|---|---|
| **Physical** | | | | |
| Density | | ISO 1183 | g/cm³ | 1.20 |
| Water Absorption, 24 hours | | ISO 62 | % | 0.15 |
| | equilibrium | | % | 0.35 |
| **Optical** | | | | |
| Light transmission | | ASTM D 1003 | % | 89.5 |
| Fog free time | | SABIC-method | s | >60 |
| **Mechanical** | | | | |
| Tensile stress, yield | | ISO 527 | MPa | 60 |
| Tensile modulus | | ISO 527 | MPa | 2300 |
| Elongation, yield | | ISO 527 | % | 7 |
| Elongation, break | | ISO 527 | % | 110 |
| Flexural Strength, yield | | ISO 178 | MPa | 100 |
| Flexural Modulus | | ISO 178 | MPa | 2500 |
| Multiaxial impact, maximum energy | 20 °C | ISO 6603-2 | J | 45 |
| | -20 °C | ISO 6603-2 | J | 30 |
| Multiaxial impact, maximum force | 20 °C | ISO 6603-2 | N | 5000 |
| | -20 °C | ISO 6603-2 | N | 4500 |
| **Thermal** | | | | |
| Vicat Softening Temp., Rate B / 120 | | ISO 306 | °C | 150 |
| HDT, 0.45 MPa | | ISO 75 /Be | °C | 138 |
| Thermal expansion | | ASTM D696 | 1/ °C | $7x10^{-5}$ |

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