

# Tenopex® GS11AG-28H Polycarbonate Technical Data Sheet

## Description and Applications

Tenopex® GS11AG-28H is polished / polished polycarbonate film surface coated with abrasion resistance and specific haze level to achieve antiglare appearance. It is suitable for display panels or touch membrane overlay of GPS navigation device, Point Of Sale touch panel, ATM machine displays, human machine interface touch panels for various household appliance. Different haze level is available for customized production order.

Specific outdoor applications requiring UV resistance or chemical resistance can be available upon request

## Typical Property Values

| Property                          | Test Method   | Units                         | Value    |
|-----------------------------------|---------------|-------------------------------|----------|
| Physical                          |               |                               |          |
| Density                           | ASTM D792     | g/cm3                         | 1.2      |
| Water Absorption, 24 hrs          | ASTM D570     | %                             | 0.35     |
| Optical                           |               |                               |          |
| Light Transmission                | ASTM D1003    | %                             | 88.5     |
| Refraction Rate                   | JIS-D7105     | %                             | 1.49     |
| Yellow Index                      | ASTM D1025    | %                             | 0.8      |
| Haze (Alternative to HP40)        | ASTM D1003    | %                             | 25 – 29% |
| Gloss (Alternative to HP40)       | ASTM D523     | %                             | 45 - 50% |
| Mechanical                        |               |                               |          |
| Tensile Strength                  | ASTM D882     | kg/cm <sup>2</sup>            | 480      |
| Tensile Elongation at Break       | ASTM D882     | %                             | 65       |
| IZOD Test                         | ASTM D256-54T | kg.cm/cm                      | 85       |
| Pencil Hardness                   | JIS-D5400     |                               | HB       |
| Thermal                           |               |                               |          |
| Standard Temperature Resistance   | ASTM D1525-76 | °C                            | 120      |
| Heat Distortion Temperature       | ASTM D1637    | °C                            | 140      |
| Melting Temperature               | DSC Scanning  | °C                            | 255      |
| UL Flammability (GS11)            |               |                               |          |
| Film thickness ≤ 0.25mm           | UL94          | VTM-2                         |          |
| Film thickness ≥ 0.375mm          | UL94          | V-2                           |          |
| Nominal Gauge Range               |               | Min/Max Tolerances of Nominal |          |
| 0.125mm – 0.175mm (.005” - .007”) |               | +/-10%                        |          |
| 0.25mm – 0.375mm (.010” - .015”)  |               | +/-7%                         |          |
| 0.5mm – 0.76mm (.020” - .030”)    |               | +/-5%                         |          |

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These are typical properties and are not intended for specifications purposes. If minimum certifiable properties are required, please contact your local sales representative. Reported values are based on 0.250mm thickness film unless otherwise noted.

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