



The Plastic Films Specialist

# Tenopex® GS11AG-40H Polycarbonate Technical Data Sheet

## Description and Applications

Tenopex® GS11AG-40H 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 devise, 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
<b>Physical</b>			
Density	ASTM D792	g/cm <sup>3</sup>	1.2
Water Absorption, 24 hrs	ASTM D570	%	0.35
<b>Optical</b>			
Light Transmission	ASTM D1003	%	88.5
Refraction Rate	JIS-D7105	%	1.49
Yellow Index	ASTM D1025	%	0.8 – 0.9
Haze (Alternative to HP12)	ASTM D1003	%	40 – 45%
Gloss (Alternative to HP12)	ASTM D523	%	10 - 13%
<b>Mechanical</b>			
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
<b>Thermal</b>			
Standard Temperature Resistance	ASTM D1525-76	°C	120
Heat Distortion Temperature	ASTM D1637	°C	140
Melting Temperature	DSC Scanning	°C	255
<b>UL Flammability (GS11)</b>			
Film thickness ≤ 0.25mm	UL94		VTM-2
Film thickness ≥ 0.375mm	UL94		V-2
<b>Nominal Gauge Range</b>		<b>Min/Max Tolerances of Nominal</b>	
0.125mm – 0.175mm (.005" - .007")		+/-10%	
0.25mm – 0.375mm (.010" - .015")		+/-7%	
0.5mm – 0.76mm (.020" - .030")		+/-5%	

## Tenopex Plastics Co., Ltd

Unit 101, Building 2, No. 136, Hua Xia Road Qiaotou Town,  
Dongguan City, Guang Dong Province, China 523532  
(86) 138 25753516 marketing@tenopexplastics-cn.cn  
www.tenopexplastics.com

## Global Sales Office

(852) 6888 0563 helen.koh@optimaplusgroup.com  
(65) 87267516 helen.koh@optimaplusgroup.com

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.

Each user is responsible for making its own determination as to the suitability of Tenopex's products, services and recommendations for the user's particular use through appropriate end-use testing and analysis. Although any information or technical recommendation will be given without warranty nor guarantee nor implied, that the results indicated herein are obtained under end-use conditions. Except as provided in seller's standard conditions of sale, seller shall not be responsible for any loss resulting from any uses of its products or services described herein.