

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 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 – 0.9
Haze (Alternative to HP12)	ASTM D1003	%	40 – 45%
Gloss (Alternative to HP12)	ASTM D523	%	10 - 13%
Mechanical			
Tensile Strength	ASTM D882	kg/cm ²	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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