

Tenopex® GS11AF Polycarbonate Technical Data Sheet

Description and Applications

Tenopex® GS11AF is a polished / polished clear polycarbonate film with anti-fog treatment on both surface sides. It is widely used for disposable and protective goggles in medical applications, as well as for packaging. The Anti-fog treatment also provides excellent chemical resistance, making GS11AF a popular choice in high humidity and high wear conditions.

Typical Property Values

Property	Test Method	Units	Value
Physical			
Density	ASTM D792	g/cm ³	1.2
Water Absorption, 24 hrs	ASTM D570	%	0.35
Optical			
Light Transmission	ASTM D1003	%	88 - 90
Refraction Rate	JIS-D7105	%	1.49
Haze	ASTM D1003	%	< 0.4
Mechanical			
Tensile Strength	ASTM D882	MPa	≥ 60
Tensile Elongation at Break	ASTM D882	%	120 - 150
Free Falling Impact Strength	ASTM D1709-09	g	≥ 2000
Thermal			
Standard Temperature Resistance	ASTM D1525	°C	120
Heat Distortion Temperature	ASTM D1637	°C	140
Melting Temperature	DSC Scanning	°C	255
UL Flammability			
Film thickness ≤ 0.25mm	UL94	VTM-2	
Film thickness ≥ 0.375mm	UL94	V-2	
Anti-Fog Properties	Results	Test Method	
Anti Fog @ 60°C / 3mins x 3 times	Clear without Fog	Place sheet sample over a beaker with 60°C water	
Anti Fog @ 15°C / 3 hours	Clear without Fog	Place sheet sample in fridge -15°C for 3 hours. After which, exhale and breathe onto sample.	
Anti Fog @ -20°C	Clear without Fog	Attach sheet sample onto face helmet and place in fridge -20°C. Observe clarity / haze after.	
Soak Test	Clear without Fog	Soak sheet sample in room temperature water for 3 days, then dry @ 80°C for 1 hour. After which exhale & breathe onto sample.	

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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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