

Tenopex® COEx GS11UV-HC/PMMA Technical Data Sheet

Description and Applications

Tenopex® GS11UV-HC/PMMA is a dual layer sheet comprising of polycarbonate sheet featuring a thin PMMA surface layer. This dual layer configuration combines enhanced hardcoated surface hardness upto 4H with UV resistance. It is suitable for various display surfaces with direct and prolonged exposure to sunlight.

Typical Property Values

Property	Test Method	Units	Value
Physical			
Density	ASTM D792	g/cm3	1.2
Pencil Hardness	ASTM D3363	-	3H – 4H
Optical			
Light Transmission	ASTM D1003	%	89.9 – 91.5
Haze	ASTM D1003	%	0.3
Refraction Rate	JIS D7105	%	1.49
Yellow Index	ASTM E313	-	< 2.5
Mechanical			
Tensile Strength at Break	ASTM D882	Kg/cm ²	480
Tensile Elongation at Break	ASTM D882	%	65
Izod Test	ASTM D256-54T	kg.cm/cm	85
Thermal			
Standard Temperature Resistance	ASTM D1525-76	°C	120
Heat Distortion Temperature	ASTM D1637	°C	140
Melting Temperature	DSC Scanning	°C	255
UV Resistance			
Transmission of UV Band Width	355nm	%	0.5
	365nm		0.7
	380nm		15.7
UL Flammability			
Film thickness ≤ 0.25mm	UL94	VTM-2	
Film thickness ≥ 0.375mm	UL94	V-2	
Visual Inspection	Area Inspected	Defects Size Ø	Numbers Allowable
Pinhole / Inclusions / Black Specks / Foreign Particles etc	930mm x 1830mm	0.5mm≤ Ø ≤ 2.0mm	0
	450mm x 500mm	0.2mm≤ Ø ≤ 0.5mm	1
	450mm x 500mm	0.1mm≤ Ø ≤ 0.2mm	8

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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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