



The Plastic Films Specialist

Technical Data Sheet

Description and Applications

GS42 is an extruded velvet / matte polycarbonate film, comprising excellent mechanical and optical properties. It offers high temperature resistance, good dimensional stability with ease of processing for various printings, thermoforming, die cutting, embossing, bonding, bending and others. Typical applications include panel nameplates, membrane touch switches, labels, automotive interior control panels, simplified light diffusers, audio/visual remote control fascias, security cards and so on. The film offers good printability without pre-treatment, making it also suitable for multi-layer printing applications like overlays, in-mold decorations and floor graphics. This surface combination provides glare free and scratch resistant properties.

Typical Property Values

Property	Test Method	Units	Value
Physical			
Density	ASTM D792	g/cm ³	1.2
Water Absorption , 24hrs	ASTM D570	%	0.35
Optical			
Light Transmission	ASTM D1003	%	≥ 80
Gloss (60° , Velvet)	ASTM D523-60		4 – 8
Gloss (60° , Matte)	ASTM D523-60		5 - 15
Mechanical			
Tensile Strength	ASTM D882	MPa	≥ 60
Tensile Elongation at Break	ASTM D882	%	100 - 150
Young Modulus	ASTM D882	MPa	≥ 2100
Impact Strength (0.76mm)	ASTM D256	ft-lb	23

PlastCo Technology Co., Ltd
Room 1003, 10th Floor, Cheung Fung Industrial Building
23-29 Par Tin Pak Street, Tsuen Wan, NT
Hongkong
Tel : +852-2712-5286
Fax : +852-2760-8653
PlastCo@plastcotechnology.com.hk

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Property	Test Method	Units	Value
Thermal			
Heat Deflection Temperature at 1.82Mpa	ASTM D648	°C	135
Coefficient of Thermal Expansion	ASTM D696	10 ⁻⁵ /°C	7
Coefficient of Thermal Exchange	ASTM D117	W/m.°C	0.19
Vicat Softening Temperature, B	ASTM 1525-00 Mod	°C	150
Electrical			
Dielectric Strength	ASTM D149	V/mil	1700
Surface Resistivity	ASTM D257	Ω/square	>10 ¹⁵
Volume Resistivity	ASTM D257	Ω.cm	≥10 ¹⁶
UL Flammability			
Film thickness ≤ 0.25mm	UL94		VTM-2
Film thickness = 1mm	UL94		V-2

Manufacturing Gauge Specifications

Nominal Gauge Ranges	Min/Max Tolerances of Nominal
0.125mm - 0.175mm	+/- 10%
0.25mm - 0.375mm	+/- 7%
0.5mm - 1.0mm	+/- 5%

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

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