

Tenopex® GS71 Polycarbonate Technical Data Sheet

Description and Applications

Tenopex® GS71 is a clear polished polycarbonate film which is coated with a brushed effect pattern one surface side. It offers excellent printability without pretreatment, dimensional stability, heat resistance and mechanical strength. We offer options of long brushed (hairline) pattern and short brushed (shredded) pattern for different aesthetic requirements. Common applications include nameplate panel, fascia overlays, decorative labels and in mold decorations. The brushed surface provides a metallic brushed appearance achievable by back printing, laminating and spraying with metallic ink, etc

Typical Property Values

Property	Test Method	Units	Value
Physical			
Density	ASTM D792	g/cm ³	1.2
Water Absorption, 24 hrs	ASTM D570	%	0.25
Optical			
Light Transmission	ASTM D1003	%	85 - 90
Haze	ASTM D1003	%	< 55 - 65
Mechanical			
Tensile Strength	ASTM D882	psi	8,800
Tensile Elongation at Break	ASTM D882	%	> 90
Impact Strength (0.25mm)	JIS K6745	In-lbs	120
Thermal			
Vicat Softening Point 120°C / hr, 10N Load	ISO 306	°C	151
Electrical			
Dielectric Strength (0.25mm)	ASTM D149	V	17000
Surface Resistivity @ 25°C, 50% RH	ASTM D257	Ω/square	10 ¹⁵
Volume Resistivity @ 25°C, 50% RH	ASTM D257	Ω.cm	10 ¹⁶
UL Flammability			
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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