

ElastoDur ED-G is a polyester base film with a UV-cured gloss (G) hard surface coating

Features

- Ink primer on second surface accepts solvent & UV screen inks and UV digital
- PET base, pencil hardness 3H, easy clean surface, scratch resistance, embossable
- Chemical resistance from household cleaners, sanitizers, industrial solvents
- Selective textures can be screenprinted on the first surface
- Protective masking on ink primer side to prevent blocking

CHEMICAL PROPERTIES

Property	ED-G	Test method
Chemical Resistance	Resistant to: Alcohols Dilute Acids Dilute Alkalis Esters Hydrocarbons Ketones Household Cleaning agents	DIN 42 115
Moisture vapour transmission rate (MVTR) ¹ 125μ	2.6g/m ² /24 hours	RTM 607
Oxygen transmission rate ¹ 125μ	5.3ml/m ² /24 hours	RTM 608

ELECTRICAL PROPERTIES

Property	ED-G	Test method
Dielectric strength ¹ 125μ 175μ	18 kV 22 kV	ASTM D149 1/4" electrode 500V/sec in 25C dry air
Dissipation factor ¹	0.005	ASTM D150 @ 1kHz, 25°C
Surface resistivity	3.4×10 ¹³ ohm/square (Ω/□)	JIS-K-6911
Volume resistivity ¹	10 ¹⁸ Ω cm	ASTM D257 and D2305 @ 25°C

MECHANICAL PROPERTIES

Property	ED-G	Test method
Young's modulus 125μ	NA	
Elongation at break (%)	131.2 (MD) 93.4 (TD)	ASTM D882-02
Switch life >5 million flexes	Switch life >5 million flexes	300g; 10,000times/1hr
Tensile strength at break ¹ 125 to 175μ	24000 PSI (MD) 27000 PSI (TD)	ASTM D882
Yield strength ¹ 125 to 175μ	13000 PSI (MD) 13000 PSI (TD)	ASTM D882

OPTICAL PROPERTIES

Property	ED-G	Test method
Haze	≤1 %	ASTM D1003
Gloss (60°)	≥ 150 %	ASTM D523
Total transmission	≥ 90 %	ASTM D1003
Yellowness index	< 2	ASTM D2244

PHYSICAL PROPERTIES

Property	ED-G	Test method
Density ¹	1.40g/cm ³	ASTM D1505-85
Tape adhesive	100/100	ASTM D3002
Pencil Hardness	3H	ASTM D3363
Thicknesses	130μ ± 10% (125μ base) 180μ ± 10% (175μ base)	ASTM D1186

THERMAL PROPERTIES

Property	ED-G	Test method
Coefficient of thermal expansion ¹ (MD) (TD)	19 x 10 exp - 6 cm cm -1 °C- 1 16 x 10 exp - 6 cm cm -1 °C- 1	ASTM E794-85
Dimensional stability (%)	TD: ≤/ = 0.1% MD: < 0.2%	@ 120°C/30 min ASTM D1204
Maximum and minimum long term use	-40 / 85°C	Kimoto method

Note:

¹Data derived from base film manufacturers literature.

The ElastoDur Film coating slightly enhances most properties.

Technical data presented within this document are typical sample values and should not be used for any specification purposes.