

Material Information Sheet

Material Description: LaserLIGHTS

Specifications	
Material:	Micro-surfaced Pre-adhesive PET (Polyethylene Terephthalate) CAS # 25038-59-9)
Finish:	Matte Gloss Metallic
Sheet Size:	12" x 24" – 10 sheet pks. 12" x 50' Rolls
Thickness: 2-Ply	.004" (.10 mm) Backed w/ a .001" acrylic pressure sensitive adhesive
Usage:	Personal Identification Industrial, Automotive, Electronic Labeling
Engraving Method:	Laser Rotary
Cutting Depth:	.002" for engraving .006" for cutting

Physical Properties	UOM	Typical Values	ASTM Method
<u>Tensile Strength</u> Tensile Strength: MD TD	Ultimate kg/mm ² (kpsi)	20 (29) 24 (34)	D 882
Strength @ 5% Elongation: MD TD	kg/mm ² (kpsi)	10 (15) 10 (14)	D 882
Elongation MD TD	kg/mm ² (kpsi)	116 91	D 882
Density	gm/cm ³	1.390	D 1505
Melt Point	°C	254	DSC
<u>Specific Heat</u>	cal/gm/°C	.28	
Coefficient of Thermal Expansion	in/in/°C	1.7x10 ⁻⁵	D 696

LaserLIGHTS material are completely flexible yet extremely durable with excellent exterior properties, resistance to water, solvents, abrasion, and extreme temperatures. (Up to 250°F for intermittent and 200°F for continuous use) Electrically non-conductive, Insulative, Non-flammable. Meets 10¹² Ohms/square meter or higher in electrical resistivity, RoHS compliant (halogen-free), PVC-free, Formaldehyde and Phenol free and UL 94 HB rated. Material was judged as not contributing to the combustion of the base material.

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