

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
Tensile Strength 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
Specific Heat	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.

Restriction of Hazardous Substances (RoHS)/Halogenated Materials Rowmark has investigated the Restriction of Hazardous Substances (RoHS 3) directive issued by the European Union (directive 2015/863/EU through our on-line research. This RoHS directive prohibits the distribution of products after June 2015, which contain the following materials; lead, mercury, cadmium, hexavalent chromium, poly-brominated biphenyls and poly-brominated diphenyl ethers. The directive appears to apply to all products that operate on electrical power and contain electronic components. Rowmark complies with the use and disclosure of all halogenated materials and does not incorporate poly-brominated biphenyls or poly-brominated diphenyl ethers in any of its products. Based on our audit, Rowmark plastic sheet products are in compliance with this directive and do not contain any of the elements noted above or in the candidate list in accordance with the referenced directive. Our related MSDS documents may be found in the Rowmark website (<http://www.rowmark.com/MARK/MSDS.asp>) and can be referenced for further information.

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