STRICO AG Allmendstrasse 14 P.O. Box 117 CH-8320 Fehraltorf Switzerland

Telephone +41 (0) 43 377 30 10 Fax +41 (0) 43 377 30 11 strico@strico.ch www.strico.ch



Laser Edged Thermoplastic Labels

Labels (or tags) made of injection-molded thermoplastic, indelibly marked by laser engraving. Application in hostile environment, particularly outdoor exposure, extreme humidity and moderately aggressive chemicals and high temperatures. Economic solution for many small quantity applications, provided existing tooling and tested thermoplastic material is suitable for intended use.

Material Several thermoplastic materials lend themselves for laser

engraving. Dark materials will turn light, bright materials will turn

dark. Choose the material according to the application

Sizes Any size and shape, with or without rivet holes, which can be

injection molded. Some standard sizes available (existing tools)

Symbology and Layout Any standard symbology in any layout. NBW preferably not less

than 0,4 mm

Application Mechanically (screws, rivets, wires, frames etc.) or by means of

a suitable adhesive

Temperature resistance Depends on the actual thermoplastic material used. Repeated

exposure for several hours at a time to a temperature of $80 - 90 \, \text{C}$ over a period of several years will sho w no adverse

effect

Mechanical resistance Thermoplastic labels are flexible, shock-proof and scratch-

resistant even at low temperatures

Chemical resistance Generally speaking, thermoplastic labels are resistant to water,

dilute acids and alkalis, and to aqueous solutions of salt. They are resistant to paraffins such as pentane, hexane and heptane in the absence of stress. Thermoplastic labels are not resistant to concentrated inorganic acids, aromatic and chlorinated hydrocarbons, esters, ethers and ketones. They are soluble in

methyl ethyl ketone, tetrahydrofuran, toluene and

dimethylformamide. The resistance to chemicals normally

decreases as temperature increases

Remarks Using state-of-the-art scanners, excellent first-read-rates are

obtained despite certain limitations in edge definition and print

contrast of the image.

In view of the many factors that may affect the performance of these products, comprehensive tests must be carried out in order to establish their suitability for a given application. The above information is subject to periodic review and up-date

