



Durable Label Materials

Vital messaging. Securely accomplished.

Labels need to last a long time to keep providing end users with vital messaging through scorching sun, bitter cold, harsh chemical environments and more. 3M's innovative solutions perform with different print methods, substrates and ink systems. Plus, our programs offer the speed, flexibility and service that will help everyone succeed.

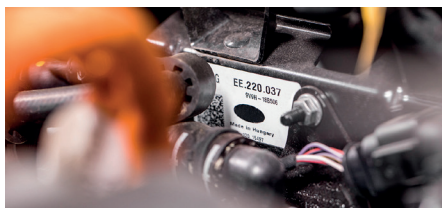
Experience in every field: our industry expertise

The conditions of use and specifications for labelling differ strongly from market to market. Over decades of working together in close partnership with our customers from various industries and with our vast network of associations and testing institutes, we have continuously evolved our product portfolio with a special focus on specific requirements. Based on our extensive insight into industries and their work processes, we are in a position to offer you labels that are more efficient, durable and also more pleasing to the eye.

Automotive



Fulfilling the requirements of the Federal Motor Transport Authority; member of the German Association of Automotive Industry (VDA). Strong focus on OEMs and Tier 1 and 2 suppliers. Lab tests in our corporate 3M laboratory in accordance with the automotive standards. E.g. durable labels that provide information on tire pressure, fuel level or airbag instructions.



7871EC

Applications within engine compartment and on hard to bond plastics

Engineering



UL/cUL/CSA
-approved components.

Company-own UL Testing Lab at the 3M plant in Wrocław, Poland ensures durable attachment of your manufacturer instructions with permanent and variable data or barcodes.



7866

Safety VOID label material

Medical engineering



Flexible materials to conform more readily to curves with small radii.

Very high adhesive strength on hard-to-bond substrates as well as destructible and non-transferable systems (VOID, Triangle).



FP0366C

Flexible Polyolefin label material

Electronics



Our labels for the electronics industry comply with the relevant VDE standards and are UL/cUL/CSA approved. Mark your circuit boards with barcode labels or provide your electronic components with variable product data.



3922DSL

High temperature barcode label on circuit board

Logistics



Solutions that solve your most demanding challenges in permanent and long-lasting marking of transport containers and other items in various industries including glass, fresh produce logistics and automotive.



92200

Bulk containers label

Chemical engineering



Label paper that withstands seawater and harsh chemicals. Matching and extremely solvent-resistant combinations are achieved using 3M specialty labels and 3M thermal transfer printing ribbon 92904.



92062

Chemical resistant label

Material selection for 3M™ Performance Labels

High and medium surface energy

#7818EH
(silver, matte)
310E; -40°C; 150°C

#7815EH
(white, matte)
310E; -40°C; 150°C

#7875E
(platinum silver)
310E; -40°C; 150°C

#7816E
(white, gloss)
310E; -40°C; 150°C

#G61SB
(white, matte)
250E; -40°C; 150°C

Very low surface energy and rough surfaces

#92200
(white, gloss)
SE100; -40°C; 105°C

Low surface energy

#7871EC
(white, gloss)
350; -40°C; 150°C

#7872EC
(silver, gloss)
350E; -40°C; 150°C

#7860EH
(white, gloss)
300E; -40°C; 150°C

#7879EJ
(silver, matte)
350E; -40°C; 150°C

Curved surface cable markings

#3690E+
(white, gloss)
320; -60°C; 150°C

#3698E+
(silver, gloss)
320; -60°C; 150°C

#FP0366EC
(white, matte)
350; -40°C; 60°C

Tamper evident

#3812DSL
(white, matte)
350; -40°C; 150°C

#7866
(white, gloss)
300; -40°C; 120°C

#7382
(silver, matte)
250E; -40°C; 150°C

Specialist labels

#7800
(silver, matte)
320; -40°C; 180°C

#76500
(clear, matte)
310E; -40°C; 150°C

Temperature resistant

#3922DSL
(white, matte)
150; -40°C; 300°C

Chemical resistance

#92062
(white, matte)
350E; -40°C; 150°C

#92064
(silver, matte)
350E; -40°C; 150°C

Laser markable

#7847
(black, matte)
350; -40°C; 200°C

#7848
(silver, matte)
350; -40°C; 200°C

Facestock type

-  Polyester
-  Cast vinyl
-  Laser mark
-  Acrylate

-  Polyurethane
-  Aluminium
-  Polyolefin

LSE:

Substrates with low surface energy (e.g. PE, PP)

MSE:

Substrates with medium surface energy (e.g. ABS)

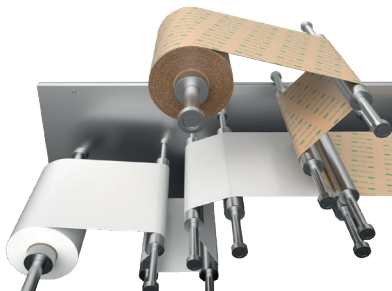
HSE:

Substrates with high surface energy (e.g. steel aluminium, glass)

Convert your 3M label. Enhance your process.

3M

Converter partners/
channel partners



Specification and supply process

Technical, lab support
and sampling

Processed and refined
label material

End user
technical specifications

Lab support and training at site

Standardised testing and documentation of all relevant properties of a marking solution are prerequisites for its industrial use. Close customer dialog and in-house test runs ensure that every 3M label meets all expectations.

- ▶ Climatic change cabinet according to automotive standards (behaviour in cold, heat and humidity)
- ▶ UV test device (aging under UV irradiation and high humidity)
- ▶ Tensile testing machine (adhesive strength at 90° or 180° peel angle)
- ▶ Crockmeter (smear resistance with various media)
- ▶ Taber Abraser (mechanical abrasion resistance)
- ▶ Post-marking test (resistance of common printing technologies and media combinations)

Common automotive specifications

Our application engineering team can help you identify the right solution for your application.

Manufacturer	Specification
VW	TL 52038
Mercedes	DBL 1630
Ford	WSS-M99P41-A10/A72
BMW	GS 97058

3M

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Product selection and use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death and/or harm to property.

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