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QC

AUTOMOTIVE INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

QC/T 797-2008

**Material identification & marking of automotive plastic,
rubber & thermoplastic elastomer parts**

汽车塑料件、橡胶件和热塑性弹性体件的材料标识和标记

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Announcement

By National Development and Reform Commission

2008 No.11

With the approval of the National Development and Reform Commission, 351 industrial standards such as “Automotive Fuel Consumption Labels” etc. (see annex for standard numbers, descriptions and dates coming into force) which include 4 automotive industry standards, 253 mechanical industry standards, 32 light industry standards, 14 architectural material industry standards, 10 textile industry standards, 18 chemical industry standards, 4 ferrous metallurgy industry standards, 3 packaging industry standards, 1 logistics industry standards, 1 pharmaceutical equipment industry standards and 11 rare earth industry standards are issued hereby.

The above mechanical industry standards are published by China Machine Press. The light industry standards are published by China Light Industry Press. The architectural material standards are published by Architectural Material Industry Press. The textile, logistics and rare earth industry standards are published by China Standardization Press. The ferrous metallurgy industry standards are published by Metallurgical Industry Press. The automotive, packaging, pharmaceutical equipment and chemical engineering construction industry standards are published by China Planning Press. The chemical product industry standards are published by Chemical Industry Press.

Annex: Standard numbers, descriptions and dates coming into force of four automotive industry standards

National Development and Reform Commission

February 1, 2008

Annex:

Standard numbers, descriptions and dates coming into force of four automotive industry standards

SN	Standard number	Standard description	Date coming into force
1	QC/T 796-2008	Automotive fuel consumption labels	July 1, 2008
2	QC/T 797-2008	Material identification & marking of automotive plastic rubber & thermoplastic elastomer parts	July 1, 2008
3	QC/T 798-2008	Multi-layers plastic tubing for automotive fuel system	July 1, 2008
4	QC/T 799-2008	Telescopic belt truck conveyer	July 1, 2008

Foreword

This Standard revised and adopted ISO 11469:2000 “Plastics - Generic Identification and Marking of Plastic Products”. The main differences between this Standard and ISO 11469:2000 are: directly REFERENCE the corresponding national standards, DELETE the definition associated with computer terminology given in the original standard, REDEFINE the scope of this Standard, ADD requirements for material identification and marking of automotive plastic, rubber and thermoplastic elastomer parts.

This Standard was proposed by the National Technical Committee of Auto Standardization.

This standard shall be under the jurisdiction of the National Technical Committee of Auto Standardization.

Drafting organization of this Standard: Pan Asia Technical Automotive Center Co., Ltd.

Main drafter of this Standard: Li Minglin.

This Standard is issued for the first-time.

Material identification & marking of automotive plastic, rubber & thermoplastic elastomer parts

1 Scope

This Standard specifies the requirements for material identification and marking of automotive plastic, rubber and thermoplastic elastomer parts.

This Standard applies to material identification and marking of automotive plastic with the mass exceeding 100 g, rubber with the mass exceeding 200 g and thermoplastic elastomer parts, this Standard does not apply to identification and marking of automotive tires. For the product with the mass lower than the value specified in this Standard, this Standard can be referenced.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1844.1 Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics (GB/T 1844.1-1995, ISO 1043-1:1987, NEQ)

GB/T 1844.2 Plastics - Symbols and abbreviated terms - Part 2: Fillers and reinforcing materials (GB/T 1844.2-1995, ISO 1043-2:1987, NEQ)

GB/T 1844.3 Plastics - Symbols and abbreviated terms - Part 3: Plasticizers (GB/T 1844.3-1995, ISO 1043-3:1987, NEQ)

GB/T 2035 Terms and definitions for plastics (GB/T 2035-1996, ISO 472: 1988, EQV)

GB/T 5576 Rubbers and lattices - Nomenclature (GB/T 5576-1997, ISO 1629:1995, IDT)

GB 5577 Codification of types for synthetic rubbers

Example: For a product made of three components, the visible one being a thin coating of polyvinyl chloride (PVC) over a polyurethane foaming plastic (PUR) containing an insert of acrylonitrile-butadiene-styrene (ABS) that is the major components by mass, marked as:

> PVC, PUR, ABS <

5.1.5 Identification of rubber and thermoplastic elastomer products.

Identification of automotive rubber and thermoplastic elastomer products shall emphasize the primary material, and be marked according to the format specified in 5.1.1.

Example 1: For a product containing a mixture of natural rubber (NR) and styrene butadiene rubber (SBR), marked as:

> NR + SBR <

Example 2: For fuel hose product externally coated with chloroprene rubber (CR) and internally coated with acrylonitrile-butadiene rubber (NBR), the middle enhancement line of which is not identified, marked as:

External layer > CR < internal layer > NBR < or > CR, NBR <

Example 3: For cooling circulating hose product internally coated with ethylene-propylene-diene monomer rubber (EPDM) (primary composition) and externally coated with chlorosulphonated polyethylene (CSM), marked as:

Internal layer > EPDM < external layer > CSM < or > EPDM, CSM <

Example 4: For automotive steering knuckle shield for dust prevention made of thermoplastic polyester elastomer material (TPC), marked as:

> TPC <

Example 5: For automotive bumper made of thermoplastic polyolefin elastomer material (TPO), marked as:

> TPO <

5.2 Identification methods

The identification of plastic, rubber and thermoplastic elastomer parts shall be made by one of the following methods:

- a) by using the appropriate symbol molding during mold design;
- b) by embossing and by melt imprinting of the polymer;

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