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JAPANESE INDUSTRIAL STANDARD

Glossary of terms used in pressure
sensitive adhesive tapes
and sheets

JIS Z 0109-1992

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Translated

by

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JAPANESE INDUSTRIAL STANDARD

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Glossary of terms used in pressure sensitive
adhesive tapes and sheets

Z 0109-1992

1. Scope This Japanese Industrial Standard specifies the terms and definitions, related to pressure sensitive adhesive tapes and sheets.

Remarks: The cited standards in this standard are as follows:

JIS C 2107-Testing Methods of Pressure-sensitive Adhesive
Tapes for Electrical Insulation

JIS C 2110-Testing Methods for Electric Strength of Solid
Insulating Materials

JIS K 6768-Testing Method of Wettability of Polyethylene and
Polypropylene Films

JIS K 6900-Glossary of Terms Used in Plastic Industry

JIS K 6911-Testing Methods for Thermosetting Plastics

JIS P 0001-Glossary of Terms Used in Pulp and Paper Industry

JIS P 8116-Testing Method for Tearing Strength of Paper and
Paperboard

JIS Z 0237-Testing Methods of Pressure Sensitive Adhesive
Tapes and Sheets

JIS Z 1524-Pressure Sensitive Adhesive Cloth Tapes for
Packaging

JIS Z 1528-Pressure Sensitive Adhesive Double Coated Tapes

JIS Z 1529-Pressure Sensitive Adhesive Films for Printing

JIS Z 1538-Pressure Sensitive Adhesive Papers for Printing

JIS Z 1901-Pressure Sensitive Adhesive Polyvinyl Chloride Tapes
for Corrosion Protection

JIS Z 9117-Retroreflective Sheeting and Tape for Safety

IEC 454-2 Specifications for pressure-sensitive adhesive tapes
for electrical purposes. Part 2 : Methods of test.

2. Classification of terms The classification of the terms of the pressure sensitive adhesive tapes and sheets shall be as follows:

- (1) General
- (2) Material
- (3) Processing
- (4) Product
- (5) Testing device

(6) Performance

(7) Phenomena

(7.1) at the original state and at the time of storage

(7.2) at the time of use (at the time of unwinding)

(7.3) after using

3. Terms and definitions The terms and definitions shall be as follows.

Further, for each term, a number is assigned and the corresponding terms in English are given for informative reference.

3.1 General

Number	Term	Reading	Definition	English equivalent (Informative reference)
1001	粘着	NENTYAKU	A kind of adhesion. The character is such that a specimen can be adhered by application of a slight pressure at ordinary temperature for a short time without using water, solvent, heat, etc.	pressure sensitive adhesion
1002	接着	SETTYAKU	A state in which faces of a same kind or different kinds of solids are adhered to each other to be unified. Adhesives are generally used as an adhesion method, and there are solvent adhesive, water dispersion adhesive, hot melt adhesive, reaction adhesive, etc. as adhesives.	adhesion
1003	被着体	HITYAKUTAI	A substance to which a pressure sensitive adhesive tape or sheet is adhered.	adherend, substrate
1004	粘着テープ	NENTYAKUTĒPU	The generic name for those whose base materials are coated with pressure-sensitive adhesive on one side or both sides and wound in a roll state of relatively narrow width and which, moreover, is easy to be rewound at the time of using (see 2001).	pressure sensitive adhesive tape
1005	両面粘着テープ	RYŌMEN NENTYAKUTĒPU	A tape of which both side of backing coated with pressure sensitive adhesive uniformly or a uniform film made of pressure sensitive adhesive (see JIS Z 1528).	pressure sensitive adhesive double coated tape

Number	Term	Reading	Definition	English equivalent (Informative reference)
1006	粘着シート	NENTYAKUSĪTO	The generic name for those whose base materials are coated with pressure sensitive adhesive on one side or both sides and wound in a roll state of relatively broad width or formed in a state of sheet.	pressure sensitive adhesive sheet
1007	印刷用粘着シート	INSATUYŌ NENTYAKUSĪTO	Those in a roll state or in a state of sheet whose one side of base material is coated with pressure sensitive adhesive and laminated with a release liner. It is used in a way that drawings, characters, etc. are printed on its surface (see JIS Z 1529 and JIS Z 1538).	pressure sensitive adhesive sheet for printing, label stock
1008	粘着ラベル	NENTYAKURABERU	It is that which is principally printed on a pressure sensitive adhesive sheet for printing to be punched to an optional shape for the purposes of decoration, marking, or seal.	pressure sensitive adhesive label
1009	粘着面	NENTYAKUMEN	A face of a pressure sensitive adhesive tape or sheet on which pressure sensitive adhesive is coated (see Attached Fig. 1).	adhesive face
1010	第1粘着面	DAITI NENTYAKUMEN	An adhesive face which does not touch a release liner when a pressure sensitive adhesive double coated tape together with the release liner are wound back with its adhesive face inside. When the release liner is composed of two sheets, it is the adhesive face which does not touch an outer liner (see Attached Fig. 2).	1st adhesive face

Number	Term	Reading	Definition	English equivalent (Informative reference)
1011	第2粘着面	DAINI NENTYAKUMEN	An adhesive face on the back side of the first adhesive face of a pressure sensitive adhesive double coated tape (see Attached Fig. 2).	2nd adhesive face
1012	背面	HAIMEN	A face on which pressure sensitive adhesive is not coated at the back side of the adhesive face of a pressure sensitive adhesive tape or sheet (see Attached Fig. 1).	backside
1013	側面	SOKUMEN	Faces on both sides of a pressure sensitive adhesive tape or sheet which is wound in a roll state (see Attached Fig. 1).	side face

3.2 Material

Number	Term	Reading	Definition	English equivalent (Informative reference)
2001	支持体	SIZITAI	Materials used as the base materials of pressure sensitive adhesive tapes or sheets. There are, for instance, paper, cloth, film, metal foil, foam, laminated or co-extruded film, etc.	backing, base material, face stock
2002	はく離剤	HAKURIZAI	A material used in order to make the pressure sensitive adhesive tape or the release liner easy to be separated. For example, there are release agent of silicone resin, fluororesin and long chain fatty compound.	release agent, release coat

Number	Term	Reading	Definition	English equivalent (Informative reference)
2003	下塗剤	SITANURIZAI	A material coated for enhancing adhesion of a base material with a pressure sensitive adhesive, or for improving moisture resistance, water resistance, weather resistance, etc.	primer, anchor coat
2004	粘着剤	NENTYAKUZAI	A material of adhesive character made, for example, by blending tackifier with elastomer to obtain appropriate viscoelasticity. The pressure sensitive adhesives consist of types of solvent, water, hot melt, etc. in a state before coating and the kinds of rubber, acrylic, silicone, etc.	pressure sensitive adhesive
2005	溶剤系粘着剤	YŌZAIKEI NENTYAKUZAI	Pressure sensitive adhesive solved in solvent. It represents the character of pressure sensitive adhesive by drying and evaporating the solvent often being coated.	solvent pressure sensitive adhesive
2006	水系粘着剤	SUIKEI NENTYAKUZAI	Pressure sensitive adhesive dispersed or solved in water. It represents the character of pressure sensitive adhesive by evaporating the water after being coated.	water borne pressure sensitive adhesive
2007	ホットメルト系粘着剤	HOTTOMERUTOKEI NENTYAKUZAI	Pressure sensitive adhesive of the solventless type. It becomes possible to be coated when fused by heat and represents the character of pressure sensitive adhesive when coming to ordinary temperature after being coated.	hot melt pressure sensitive adhesive

Number	Term	Reading	Definition	English equivalent (Informative reference)
2008	カレンダー形粘着剤	KARENDĀGATA NENTYAKUZAI	Pressure sensitive adhesive of the solventless type. The pressure sensitive adhesive coated by calender.	calendered pressure sensitive adhesive
2009	化学反応形粘着剤	KAGAKU HANNOGATA NENTYAKUZAI	Pressure sensitive adhesive made in a way to make a state of high polymer by chemical reaction after coating to obtain appropriate viscoelasticity. For example, it is made by polymerizing the acrylic oligomer.	chemical reaction pressure sensitive adhesive
2010	ゴム系粘着剤	GOMUKEI NENTYAKUZAI	Pressure sensitive adhesive made in a way that the tackifier is mixed with the rubber (natural rubber, synthetic rubber). There are the types of solvent, water, hot melt and calender.	rubber pressure sensitive adhesive
2011	アクリル系粘着剤	AKURIRUKEI NENTYAKUZAI	Pressure sensitive adhesive the principal material of which is acrylic polymer. Acrylic ester and methacrylic acid ester are mainly used. There are the types of solvent, water, hot melt and chemical reaction.	acrylic pressure sensitive adhesive
2012	シリコーン系粘着剤	SIRIKŌNKEI NENTYAKUZAI	Pressure sensitive adhesive of which the principal materials are viscoelastic body made of silicone rubber and silicone resin. It is usually used by crosslinking.	silicone pressure sensitive adhesive
2013	硬化形粘着剤	KŌKAGATA NENTYAKUZAI	Pressure sensitive adhesive cured by crosslinking at the time of use. The means of curing are heat, ultraviolet radiation, electron beam, damping, anaerobe, etc.	curable pressure sensitive adhesive

Number	Term	Reading	Definition	English equivalent (Informative reference)
2014	非硬化形粘着剤	HIKŌKAGATA NENTYAKUZAI	Pressure sensitive adhesive which indicates the same viscoelasticity at the times before and after use and is not cured by crosslinking. Generally, pressure sensitive adhesives are in this kind.	non-curable pressure sensitive adhesive
2015	架橋剤	KAKYŌZAI	A material for crosslinking (see 3009).	crosslinking agent
2016	エラストマー	ERASUTOMĀ	A high molecular material which is a principal composition of a pressure sensitive adhesive with rubber-like elasticity at ordinary temperature. There are, for instance, natural rubber, various kinds of synthetic rubbers, reclaimed rubber, acrylic resin, etc.	elastomer
2017	粘着付与剤	NENTYAKUHUYOZAI	A material which is combined with a pressure sensitive adhesive in order to improve the tackiness. There are, for instance, natural resin series (rosin, polyterpene resin, etc.), synthetic resin series (petroleum resin, cumarone-indene resin, etc.).	tackifier
2018	軟化剤	NANKAZAI	A material which is combined to enable an elastomer to be easily processed and to improve pressure sensitive adhesive property. There are, for instance, process oil, plasticizer, low grade polymer, etc.	softener

Number	Term	Reading	Definition	English equivalent (Informative reference)
2019	充てん剤	ZYŪTENZAI	A material which is combined for the purposes of increase of hardness, increase of quantity, coloration, etc. of a pressure sensitive adhesive. There are, for instance, zinc white, titanium white, silica, calcium carbonate, carbon black, etc.	filler
2020	老化防止剤	RŌKABŌSIZAI	A material which is combined to delay aging of a pressure sensitive adhesive or the like. Various kinds thereof are used according to the class of a pressure sensitive adhesive, the purpose of service, etc.	antioxidant
2021	はく離ライナー	HAKURIRAINĀ	A material prepared by release processing on one side or both sides of paper or plastic film and others. It is also called generally a separator and is also called as well separating or releasing paper. The adhesive face of a pressure sensitive adhesive tape or sheet is protected to final service time, and is used by separation when used. It is used principally for a pressure sensitive adhesive sheet for printing and a pressure sensitive adhesive double coated tape.	release liner
2022	口取りテープ	KUTITORITEPU	A tape for indicating the start of unwinding of a pressure sensitive adhesive tape or sheet. Tapes of a colored paper, a plastic film, etc. are generally used (see Attached Fig. 3).	lead tape

Number	Term	Reading	Definition	English equivalent (Informative reference)
2023	巻心	MAKISIN	A core tube for winding a pressure sensitive adhesive tape or sheet. A paper tube or a plastic tube is generally used.	core

3.3 Processing

Number	Term	Reading	Definition	English equivalent (Informative reference)
3001	支持体の前処理	SIZITAI NO MAESYORI	A preliminary treatment and an amendment of quality of the surface of a base material by a physical or chemical method. There are, for instance, corona discharge treatment, impregnation, sizing, sanding, etc. There are, moreover, release treatment, mat processing, vacuum deposition, embossing, wax treatment, clear lacquer treatment, etc.	pretreatment of backing
3002	はり合わせ	HARIAWASE	(1) Lamination of two sheets or more of a same kind or different kinds of base materials for the purposes of reforming the base material with a certain new function. There are a dry system, a wet system, an extrusion system, etc. as a lamination system. (2) A release liner or the like is laminated on an adhesive face to protect adhesive surfaces of a pressure sensitive adhesive double coated tape, a pressure sensitive adhesive sheet, etc.	laminating

Number	Term	Reading	Definition	English equivalent (Informative reference)
3003	塗エ	TOKŌ	Coating of a pressure sensitive adhesive, an anchor coat, or a release agent on a base material with a coater.	coating
3004	ストライプ塗り	SUTORAIPUNURI	Coating of a pressure sensitive adhesive in a striped state on a base material.	stripe coating
3005	模様塗り	MOYŌNURI	Coating of a pressure sensitive adhesive in various patterns on a base material for the purposes of special service, decoration, etc.	pattern coating
3006	つなぎ	TUNAGI	Connection of one end to the other end of a pressure sensitive adhesive tape or sheet. Splicing is occasionally employed according to the process or by other reasons. There are (1) a butt joint system and (2) a lap joint system as a splicing system (see Attached Fig. 19).	splicing
3007	継ぎ目	TUGIME	A position at which a pressure sensitive adhesive tape or sheet is jointed in one roll.	joint
3008	切れ目	KIREME	A position at which a pressure sensitive adhesive tape is cut in one roll.	cut line
3009	架橋	KAKYŌ	Providing a chemical crosslinking structure by utilizing energy of heat, light, or electron beam in order to elevate cohesive strength, heat resistance, and solvent resistance of a pressure sensitive adhesive.	crosslinking, cross link