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Plasticized polyvinyl chloride compounds

ICS 83.08.20

Descriptors : plasticized polyvinyl chloride, electric cables, plastics, insulating coatings, electrical insulating materials

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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JAPANESE INDUSTRIAL STANDARD

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Plasticized polyvinyl chloride compounds

1 Scope This Standard specifies the plasticized polyvinyl chloride compounds, (hereinafter referred to as the "compounds"), used for the polyvinyl chloride insulated wire, polyvinyl chloride cord and cable sheath for 600 V.

Remarks 1 The standards cited in this Standard are as follows:

	JIS B 🕻	7503	Dial gauges
	JIS C 2	2320	Electrical insulating oils
	JIS K	6258	Testing methods of the effect of liquids for vulcanized rubber
	JIS K	7113	Testing method for tensile properties of plastics
	JIS K	7212	General rules for tests for thermal ageing properties of thermoplastics in the form of sheet by means of ovens
	JIS K	7216	Testing method for brittleness temperature of plastics
	JIS K	8295	Glycerol
	JIS R	3503	Glass apparatus for chemical analysis
,	The inte	rnational	standards corresponding to this Standard are as follows:
	ISO 182	2-1 : 1990	Plastics — Determination of the tendency of compounds and products based on vinyl chloride homopolymers and copolymers to evolve hydrogen chloride and any other acidic products at elevated temperatures — Part 1: Con- go red method
	ISO 291	l : 1977	Plastics — Standard atmospheres for conditioning and testing
	ISO R :	527 : 196	6 Plastics — Determination of tensile properties
	ISO 974	4 : 1980	Plastics — Determination of the brittleness temperature by impact
	ISO 289	98 : 1986	Plastics — Plasticized compounds of homopolymers and copolymers of vinyl chloride (PVC-P) — Part 1: Desig- nation, Part 2: Preparation of test specimens and deter- mination of properties
			= 1 and $ = 1 $ and $ = 1$

- 3 The units and the numerical values given in { } in this Standard are based on the traditional units, and are appended for reference.
- 2 Classification The classification of compounds shall be as shown in Table 1.

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Cla	iss	Remark			
	No. 1	For general insulation			
Class 1	No. 2	For general cord			
	No. 3	For general sheath			
	No. I	For heat-proof insulation			
Class 2	No. 2	For heat-poof cord			
	No. 3	For heat-poof sheath			

Table 1 Classification

3 Quality The compounds shall be tested in accordance with 6 and shall conform to the requirements specified in Table 2.

		Class		Class 1			Class 2		
Test Item			No. 1	No. 2	No. 3	No. 1	No. 2	No. 3	Applicable sub-clauses
Tensile test		Tensile strength MPa {kgf/mm ²	Not less than 14.7 {1.5]	Not less than 12.7 {1.3}	Not less than 11.8 {1.2}	Not less than 14.7 {1.5}	Not less than 12.7 {1.3}	Not less than 11.8 {1.2}	6.3
		Elongation	% Not less than 180	Not less than 180	Not less than 200	Not less than 180	Not less than 180	Not less than 200	
	100 ℃±	Retention of tensile strength	Not less than 90	Not less than 90	Not less than 90	_	-	-	6.4
Tensile test after	2℃	Retention of elongation	Not less than 70	Not less than 70	Not less than 70	-	_	-	
heating		enen Bui	76 -		_	Not less than 90	Not less than 90	Not less than 90	
		1 CCICITION OF	76 –		-	Not less than 80	Not less than 75	Not less than 80	
Heat defo	rmation ra	te 9	Not more than 40	Not more than 40	Not more than 40	Not more than 25	Not more than 25	Not more than 25	6.5
Low temp	perature re	sistance		No breakage at a temperature in Table 4					
Heat stabi	ility	h	Not less than 2	Not less than 2	Not less than 2	Not less than 2	Not less than 2	Not less than 2	6.7
30 °C±0.5 °C Ω			n Not less that 5×10^{13}	n Not less than 1×10^{12}	-	Not less than 5×10 ¹³	Not less than 1×10 ¹²	_	
Volume resistivity		60℃±0.5℃ Ωcr	n Not less that 5×10^{11}	nNot less than 1×10 ¹⁰	-	_	-	-	6.8
		75°C±0.5°C Ωcm	n –	_	-	Not less than 2×10^{11}	Not less than 5×10°	_	
Oil resistance		Retention of tensile strength %	Not less than 85	-	Not less than 85	Not less than 85	-	Not less than 85	6.9
		Retention of elongation %	Not less than 80	-	Not less than 75	Not less than 85	_	Not less than 75	

Table 2Quality