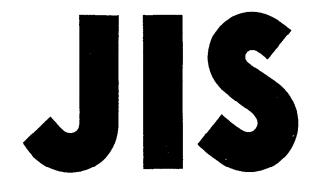
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JAPANESE INDUSTRIAL STANDARD

Plasticized Polyvinyl Chloride Compounds

(f) JIS K 6723-1983

Translated and Published

by

Japanese Standards Association

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JAPANESE INDUSTRIAL STANDARD

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Plasticized Polyvinyl Chloride Compounds

к 6723-1983

1. Scope

This Japanese Industrial Standard specifies the plasticized polyvinyl chloride compounds, hereinafter referred to as the "compounds", used for the polyvinyl chloride insulated wire, polyvinyl chloride code and cable sheath for 600 V.

Remark: The units and the numerical values given in $\{\ \}$ in this standard are in accordance with the International System of Units (SI), and are appended for reference.

2. <u>Classification</u>

The classification of compounds shall be as shown in Table 1.

Table 1. Classification

Class		Remark			
	No. 1	For general insulation			
Class 1	No. 2	For general code			
	No. 3	For general sheath			
	No. 1	For heat-proof insulation			
Class 2	No. 2	For heat-proof code			
	No. 3	For heat-proof sheath			

3. Quality

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

Applicable Standards and Reference Standard: See page 11.

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Table 2. Quality

Class			Class 1			Class 2			Applicable
Test item		No. 1	No. 2	No. 3	No. 1	No. 2	Но. 3	item	
Tensile test Tensile test Tensile test Elongation %		Not less than 1.5 {14.7}	Not less than 1.3 {12.7}	Not less than 1.2 {11.8}	Not less than 1.5 {14.7}	Not less than 1.3 {12.7}	Not less than 1.2 {11.8}	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	
Tensile test after	100 ± 2 °C	Retention of tensile strength %	Not less than 90	Not less than 90	Not less than 90	1	-	-	6.4
	100 ± 2 C	Retention of %	Not less then 70	Not less than 70	Not less than 70	-		-	
	120 ± 3 °C	Retention of tensile strength ⁷	-	-	~-	Not less than 90	Not less than 90	Not less than 90	
		Retention of % %	_	-	-	Not less than 80	Not less than 75	Not less than 80	
Heat deformation rate %		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 temperature resistance		No breakage at a temperature in Table 4						6.6	
Heat stability h		Not less than 2	Not less than 2	6.7					
30 ± 0.5 °C Ωcm (MΩm)		Not less than 5 x 10 ¹³ {5 x 10 ⁵ }	Not less than 1 x 10 ¹² {1 x 10 ⁴ }	_	Not less then 5 x 10 ¹³ {5 x 10 ⁵ }	Not less than 1 x 10 ¹² (1 x 10 ⁴)	1		
			Not less than 5 x 10 ¹¹ {5 x 10 ³ }	Not less than 1 x 10 ¹⁰ {1 x 10 ² }		-	-	_	6.8
				-	_	Not less than 2 x 10 ¹¹ {2 x 10 ³ }	Not less than 5 x 10 ⁹ {5 x 10 ¹ }	-	
Oil resistance Retention of tensile streng: Retention of elongation		Retention of % tensile strength	Not less than 85	-	Not less than 85	Not less than 85	-	Not less than 85	6.9
			Not less than 80	_	Not less than 75	Not less than 85		Not less than 75	

4. <u>Colour</u>

The colour of compounds shall be as agreed between the parties concerned.

5. Material and Process Method

The compounds shall be the material of granular form or powder form processed by mixing necessary plasticizer, stabilizer, lubricant, filler, coloring agent, etc., with polyvinyl chloride as main material.

6. Test Methods

- 6.1 Method for Sampling At random take one sample for each lot of compounds of the quality considerable same and take it as test sample. In this case, take the quantity required for carrying out each test in 6.3 to 6.9 as one sample.
- 6.2 <u>Preparation, Annealing and Conditioning of Test Piece</u> The preparation, annealing and conditioning of test piece shall be in accordance with the methods specified as follows. However, when the test is carried out under conditions other than the following methods according to special agreements between the parties concerned, clearly record the conditions on the test results.