

Vibroisolating Rubber Material

KES

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1. Scope of Application

This standard specifies about rubber material of vulcanized rubber products (herein after (Vibroisolating Rubber) which is used for the purpose of buffing or preventing travel of vibration-impact, but it should not apply to ebonite forming rubber and cloth or rubber reinforced by cord.

2. Type

Rubber material of Vibroisolating rubber shall be classified into 5 types of the table 1 according to the using purpose.

Table 1

Types	Remarks
A	General vulcanized rubber (which does not contain in B, C, D, E)
B	Especially vulcanized rubber required oil resistance
C	Especially vulcanized rubber required weather resistance (some oil resistance)
D	Especially vulcanized rubber required damping capacity for big vibration
E	Especially vulcanized rubber required Heat-resistance

3. Name

Name of rubber material of Vibroisolating rubber shall be called as which is represented in the table 2-6 after writing types of rubber material and a positive number (kg/cm²) static shear elasticity rate side by side.

4. Quality

Quality of rubber material of vibroisolating rubber shall be appropriated to general standard of the table 2-6 and which is tested according to the test method of 6 and 7. Also specific standard shall be applied in case of required it, if specific standard is not equal with general standard, conform to the method of specific standard.

Table 2

Standard	General standard					Specific standard			
Items Name	Static shear elasticity rate (kg/cm ²)	Elongation rate (%) or more	Aging test (70°C, 70hrs)		Compressive permanent contraction ratio (70°C, 70hrs) (%) or less	b ₁ Compressive permanent contraction ratio (70°C, 70hrs) (%) or less	r ₁ rebound resistance (minimum value) (%) or more	a ₁ Aging test (70°C, 70hrs) hardness alteration rate	a ₂ Aging test (70°C, 70hrs) (minimum value) (%)
			Changing rate in elongation stress 25% (%)	Within changing rate in elongation (%)					
A05	5±1.0	500	-10~+30	-50	50	25	75	(0~+7)	-25
A06	6±1.0	500	-10~+30	-50	50	25	75	(0~+7)	-25
A07	7±1.0	500	-10~+30	-50	50	25	70	(0~+7)	-25
A08	8±1.0	400	-10~+30	-50	50	25	70	(0~+7)	-25
A09	9±1.0	400	-10~+30	-50	50	25	70	(0~+7)	-25
A10	10±1.0	400	-10~+30	-50	50	25	65	(0~+7)	-25
A11	11±1.1	400	-10~+30	-50	50	25	65	(0~+7)	-25
A12	12±1.2	400	-10~+30	-50	50	25	65	(0~+7)	-25
A13	13±1.3	400	-10~+30	-50	50	25	65	(0~+7)	-25
A14	14±1.4	300	-10~+30	-50	50	25	60	(0~+7)	-25
A16	16±1.6	300	-10~+30	-50	50	25	55	(0~+7)	-25
A18	18±1.8	250	-10~+30	-50	50	25	50	(0~+7)	-25
A20	20±2.0	250	-10~+30	-50	50	25	45	(0~+7)	-25

Note.⁽¹⁾ Dimensions in bracket does not specify elasticity rate in static shear of rubber as the specific standard, it is the applied dimension in case of specifying spring hardness of them.

Table 3

Standard	General standard					Specific standard		
Items Name	Static shear elasticity rate (kg/cm ²)	Elongation rate (%) (minimum)	Oil resistance test (No.3 oil 100°C, 70 hrs) changing rate in volume (%) (maximum value)	Aging test (70°C, 70hrs)		Compressive permanent contraction ratio (100°C, 22hrs) (%) (maximum value)	b ₁ Compressive permanent contraction ratio (100°C, 22hrs) (%) (maximum value)	a ₁ (1) Aging test (100°C, 70hrs) hardness alteration rate
				Changing rate in elongation stress 25% (%)	Within changing rate in elongation (%) (minimum value)			
B05	5±1.0	400	+40	-10~+100	-50	50	25	(0~+15)
B06	6±1.0	400	+40	-10~+100	-50	50	25	(0~+15)
B07	7±1.0	400	+40	-10~+100	-50	50	25	(0~+15)
B08	8±1.0	400	+40	-10~+100	-50	50	25	(0~+15)
B09	9±1.0	400	+40	-10~+100	-50	50	25	(0~+15)
B10	10±1.0	300	+40	-10~+100	-50	50	25	(0~+15)
B11	11±1.1	300	+40	-10~+100	-50	50	25	(0~+15)
B12	12±1.2	300	+40	-10~+100	-50	50	25	(0~+15)
B13	13±1.3	300	+40	-10~+100	-50	50	25	(0~+15)
B14	14±1.4	250	+40	-10~+100	-50	50	25	(0~+15)
B16	16±1.6	250	+40	-10~+100	-50	50	25	(0~+15)
B18	18±1.8	200	+40	-10~+100	-50	50	25	(0~+15)
B20	20±2.0	150	+40	-10~+100	-50	50	25	(0~+15)