

## Extract from TY 005216-99

### Industrial rubber items, sheets and rubber stock for special machines and for their motors

Industrial rubber items, henceforth called as ПТИ, (Rubber, Rubber armoured, Rubber fabric, porous), are meant for assembly of special machines and for their motors, sheets and rubber stock for making the above mentioned ПТИ.

#### 1. Rubber stock.

1.1. Non-vulcanized, rolled and oil benzene resistant rubbers; B14-1, 51-3029, ИПП-1078, 4326-1, 3825, 51-1452, 9831, HO-68-1, 98-1.

1.2. Non-vulcanization, rolled and oil benzene non-resistant rubbers: 3311, 44-3, ИПП -1346-3.

1.3. Physical and mechanical properties of rubber should correspond to those specified in table.

1.4. Rubber stock should be produced in the form of rolled sheets having thickness from 3 upto 30 mm. Length and width of sheets is not limited.

1.5. On the surface, and in cross section of rubber stock, individual small size inclusions, dimensions of which should not exceed 0.3 mm are permitted.

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Table

Rubber grade	Raw rubber	Mode of vulcanization and thermostattin g of (T) standard sample		Relative tensile strength MPa (Kgf/cm <sup>2</sup> ), not less than	Relative elongation at rupture %, not less than	Relative residual deformation after breaking %, not more than	Hardness unit in Shore A, within the limits	Coefficient of freezing stability as per elasticity recovery after pressing, not less than		Temperature limit of fragility °C, not more than	Density Kg/M <sup>3</sup> . 10 <sup>3</sup> (Limit deviation. ±0.05)	Storage life of rubber stock, months	Technological properties of rubber stock
		Temperatu re, °C	Time, min.					Temperatu re, °C	Value Kv				
B14 -1	CKH-18C	151± 3 143± 3	20 ± 1.0 40 ± 2.0	11.8 (120)	140	8	75-85	Minus 45	0.15	Minus 45	1.28	4	By molding, By injection molding
51-3029	CKH-18C CKH-26C	151 ± 3	20 ± 1.0	9.8 (100)	140	6	71-82	Minus 40	0.50	Minus 45	1.33	3.5	By molding, By calendaring, By injection molding
ИРП-1078	CKH-18C CKH-26C	151 ± 3	40 ± 2.0	10.8 (110)	130	6	75-85	-	-	Minus 37	1.37	3	Molding, injection molding for making blank
4326-1	CKH-18C	143 ± 3 151 ± 3	20 ± 1.0 15 ± 1.0	7.8 (80)	170	12	65-80	-	-	Minus 45	1.26	4	By molding, By calendaring, By injection molding
3825	CKH-40C	143 ± 3 151 ± 3	30 ± 1.5 20 ± 1.0	9.8 (100)	120	10	80-95	-	-	Minus 25	1.31	4	By molding
51-1452	CKH-26C	151 ± 3	20 ± 1.0	9.8 (100)	140	10	72-82	Minus 40	0.10	Minus 35	1.27	6	By injection molding, by molding

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Rubber grade	Raw rubber	Mode of vulcanization and thermos tating of (T) standard sample		Relative tensile strength MPa (Kgf/cm <sup>2</sup> ), not less than	Relative elongation at rupture %, not less than	Relative residual deformation after breaking %, not more than	Hardness unit in Shore A, within the limits	Coefficient of freezing stability as per elasticity recovery after pressing, not less than		Temperature limit of fragility °C, not more than	Density Kg/M <sup>3</sup> · 10 <sup>3</sup> (Limit deviation. ±0.05)	Storage life of rubber stock, months	Technological properties of rubber stock
		Temperature, °C	Time, min.					Temperature, °C	Value Kv				
9831	CKH-26C	143 ± 3	20 ± 1.0	9.8 (100)	300	20	55-70	-	-	Minus 25	1.26	2	By molding, By calendaring,
HO-68-1	CKH-18C vinyl	151 ± 3	20 ± 1.0	8.8 (90)	250	12	55-70	Minus 50	-	Minus 50	1.24	3	By molding, By calendaring, By injection molding
		143 ± 3	30 ± 1.5										
98-1	CKH-18C	143 ± 3	30 ± 1.5	4.9 (50)	160	8	50-65	-	-	Minus 55	1.16	4	By molding
638 MA-2	CKH-18 <sup>CM</sup>	151 ± 3	30 ± 1.5	4.4 (45)	500	35	35-50	-	-	Minus 40	1.37	3	By molding, By calendaring.
3311	HK	143 ± 3	10 ± 1.0	14.7 (150)	700	25	30-45	-	-	Minus 50	0.98	4	By molding, By calendaring,

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Rubber grade	Raw rubber	Mode of vulcanization and thermostattin g of (T) standard sample		Relative tensile strength MPa (Kgf/cm <sup>2</sup> ), not less than	Relative elongation at rupture %, not less than	Relative residual deformation after breaking %, not more than	Hardness unit in Shore A, within the limits	Coefficient of freezing stability as per elasticity recovery after pressing, not less than		Temperature limit of fragility °C, not more than	Density Kg/M <sup>3</sup> .10 <sup>3</sup> (Limit deviation.±0.05)	Storage life of rubber stock, months	Technological properties of rubber stock
		Temperature, °C	Time, min.					Temperature, °C	Value KV				
44-3	HK	151 ± 3	40 ± 2.0	16.7 (170)	600	30	30-45	-	-	-	1.18	4	By calendaring, By injection molding
ИРП-1346-3	СКИ-3 СКД	143 ± 3	25 ± 1.0	15.7 (160)	600	25	40-50	Minus 60	0.10	Minus 60	1.03	3	By molding, By calendaring, By injection molding
1847	HK	151 ± 3	15 ± 1.0	15.7 (160)	600	32	35-50	-	-	Minus 45	1.05	4	By molding, By calendaring,
HO-68-1M	СКН-18 <sup>CM</sup> poly chloro-prene	151 ± 3	20 ± 1.0	7.8	250	12	55-70	Minus 50	0.18	Minus 50	1.24	3	By molding, By calendaring, By injection molding.
		143 ± 3	30 ± 1.5	(80)									

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Rubber grade	Raw rubber	Mode of vulcanization and thermostatting of (T) standard sample		Relative tensile strength MPa (Kgf/cm <sup>2</sup> ), not less than	Relative elongation at rupture %, not less than	Relative residual deformation after breaking %, not more than	Hardness unit in Shore A, within the limits	Coefficient of freezing stability as per elasticity recovery after pressing, not less than		Temperature limit of fragility °C, not more than	Density Kg/M <sup>3</sup> . 10 <sup>3</sup> (Limit deviation. ±0.05)	Storage life of rubber stock, months	Technological properties of rubber stock
		Temperature, °C	Time, min.					Temperature, °C	Value KV				
44-3	HK	151 ± 3	40 ± 2.0	16.7 (170)	600	30	30-45	-	-	-	1.18	4	By calendaring, By injection molding
ИРП-1346-3	СКИ-3 СКД	143 ± 3	25 ± 1.0	15.7 (160)	600	25	40-50	Minus 60	0.10	Minus 60	1.03	3	By molding, By calendaring, By injection molding
1847	HK	151 ± 3	15 ± 1.0	15.7 (160)	600	32	35-50	-	-	Minus 45	1.05	4	By molding, By calendaring,
НО-68-1М	СКН-18 <sup>CM</sup> poly chloro-prene	151 ± 3	20 ± 1.0	7.8 (80)	250	12	55-70	Minus 50	0.18	Minus 50	1.24	3	By molding, By calendaring, By injection molding.
		143 ± 3	30 ± 1.5										

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## 2. Rubber sheets for special machines and for their motors.

2.1. PТИ and sheets are supplied for assembly of special machines to countries of different climatic zones should be manufactured as per requirements GOST 15152 in the part dealing with protection of rubbers.

2.2. Rubber stock should conform to the requirements of present specifications and should be manufacturing and delivered as per technological regulatory document, approved in the established order.

2.3. Physical and mechanical properties (hardness, bonding strength with metals etc.) determined, if necessary directly for PТИ, are stipulated in the drawing specifying the value of measuring indicator as per results of data.

2.4. Rubber stock should be delivered in the form of rolled sheets of thickness from 3 to 30 mm. Length and width of sheets is not limited.

2.5. On the surface and in shear of rubber stock individual inclusions, dimensions of which should be not more than 0.3 mm, are permitted.

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