Physical Properties of Rubber Materials for Belts

2011. 2

YAMAUCHI CORP.

Material Name		Young's Modulus (MPa)	Hardness (deg)	Friction Coefficient (–)	Safety Coefficient (–)	Strength Against Breakage (Mpa)	Breaking Elongation (%)	Tear Strength (N/mm)	Stress Relaxation 70℃	Stress Relaxation 40℃, 90%RH	Electric Resistance *2 (Ω)	Features
Chloroprene	CY-55	3.23	57	0.45	1.6	15.7	380	39.2	-5	-25		CR standard
	CY-60	3.82	60	0.45	1.7	16.7	340	34.3	-5	-20		
	CY-65	4.41	66	0.45	1.7	18.6	280	34.3	-5	-20		
	CY-73	5.59	73	0.40	1.7	18.6	300	29.4	-10	-20		
	5CM-60	4.21	65	0.45	1.7	19.6	300	29.4	-5	-20		CR elasticity fatigue resistance
	5CM-70	5.19	71	0.40	1.7	21.6	240	56.8	-10	-20		
	5CM-701	5.98	74	0.40	1.7	21.6	210	56.8	-10	-20		
	SE-68	4.70	68	0.40	1.7	16.7	400	39.2	-10	-25	Less than 1×10^{10}	CR conductivity
	SE-600	5.19	72	0.40	1.7	16.7	270	29.4	-10	-20	Less than 1×10^{10}	
EPDM	DY-66	4.41	67	0.40	1.7	13.7	300	34.3	-20	-25	Less than 1×10^{10}	EPDM standard (nonconductive composition)
	DY-70	5.39	71	0.40	1.7	14.7	280	29.4	-15	-20	Less than 1×10^{10}	
	DY-72	5.49	73	0.40	1.7	15.7	280	29.4	-10	-20	Less than 1×10^{10}	
	DY-75	6.27	76	0.40	1.7	16.7	250	34.3	-10	-20	Less than 1×10^{10}	
	DY-600	5.78	73	0.40	1.7	18.6	290	34.3	-8	-20	Less than 1×10^{10}	(Non-conductive composition)
	DC-66	4.31	66	0.40	1.7	12.7	250	24.5	-15	-20	Less than 1×10^{9}	EPDM conductivity (conductive composition)
	DC-69	4.90	69	0.40	1.7	17.6	250	34.3	-20	-20	Less than 1×10^{9}	
	DC-70N	5.59	72	0.35	1.7	19.6	250	34.3	-20	-25	Less than 1×10^{9}	
	UC-6003	5.88	72	0.35	1.7	16.7	260	53.9	-15	-22	Less than 1×10^{9}	UR conductivity
	UC-8007	7.84	80	0.35	1.7	17.6	240	44.1	-15	-22	Less than 1×10^{9}	
Testing Condition		At 10% stretching	Scale A			JIS K6301	JIS K6301	JIS K6301	10% stretching 120h			

*The values in the above table are typical values. They are not guaranteed values.

*2 Values obtained in measurements using our standard material test pieces (30 x 50 mm contact area, 5 seconds after 10 V is applied).