

# Physical Properties

ITEM	Gel tack	Semiconductive gel			Pit cushion	Soft cushion	Clear tack		
		15	30	50					
Specific gravity	1.08	1.13	1.13	1.13	1.05	1.13	1.08		
Hardness	Asker C	23	15	30	50	80	67	14	
Tensile strength	Strength	N/mm <sup>2</sup>	0.88	0.36	0.53	0.68	13.82	1.58	0.66
	Tensile stress for 100%	N/mm <sup>2</sup>	0.12	0.05	0.19	0.22	1.96	0.45	-
	Tensile stress for 200%	N/mm <sup>2</sup>	0.18	0.07	0.31	0.34	3.58	0.59	-
	Tensile stress for 300%	N/mm <sup>2</sup>	0.26	0.10	0.40	0.50	3.9	0.7	-
Tensile elongation	%	860	660	370	410	690	730	480	
Tear strength	N/mm	4.13	-	-	-	19.5	18.1	0.27	
Compressive strength	10%	N/mm <sup>2</sup>	0.05	0.01	0.08	0.09	0.76	0.2	-
	20%	N/mm <sup>2</sup>	0.10	0.03	0.17	0.21	1.64	0.45	-
	30%	N/mm <sup>2</sup>	0.15	0.05	0.31	0.38	3.04	0.76	-
Compressive elastic modulus	N/mm <sup>2</sup>	2.81	0.21	0.80	0.95	25.87	4.49	-	
Water resistance		No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-	
Water absorbency	Room temperature	24hrs%	10.8	4.0	1.6	1.6	2.7	-	-
	(W/V) 40°C	24hrs%	6.9	10.2	5.6	3.8	4.8	-	-
Oil resistance	40°C	24hrs%	1.74	-	-	-	0.31	-	-
Acid resistance	24hrs	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-
Alkali resistance	24hrs	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-
Environmental resistance	80°C80%	24hrs	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-
Heat aging resistance	Tensile strength	N/mm <sup>2</sup>	0.76	0.37	1.48	1.54	17.74	2.07	-
	Tensile stress for 100%	N/mm <sup>2</sup>	0.06	0.06	0.32	0.74	2.17	0.68	-
	Elongation	%	1446	392	372	24.9	448	537	-
Compression set	70°C22hrs	%	2.4	-	41.8	24.9	12.1	25	-
	100°C70hrs	%	88.6	-	-	-	50.0	-	-
Heatresistant temperature	°C	80	80	80	80	80	80	-	
Adhesive	180° Peel	N/25mm	7.55	2.25	0.95	0.55	-	-	0.75
	Holding power※	sec	0mm	68	336	283	-	-	231
	Ball tack	NO.	20	22	13	11	-	3	8
Visible light transmission	%	92.7	-	-	-	92.3	-	89.5	
Proper load	Kgf/cm <sup>2</sup>	0.93	0.20	1.22	1.45	12.0	3.25	-	

30	50	70	Hitohada Gel			Hitohada Gel Transparent		Seitai gel	Gel fit	References (JIS No.)
			0	7	15	0	7			
1.08	1.08	1.08	1.04	1.04	1.04	1.00	1.00	1.00	1.01	K7311
30	50	65	0	7	15	0	0	0	0	K7312
0.83	2.19	4.30	0.34	0.58	1.58	0.02	0.06	0.44	0.04	K7312
0.15	0.37	0.78	0.01	0.03	0.11	0.01	-	0.07	0.035	
0.2	0.53	1.11	0.03	0.05	0.35	-	-	0.14	-	
0.24	0.65	1.34	0.05	0.09	0.72	-	-	0.24	-	
1000	780	580	760	550	450	160	95	620	-	K7312
3.30	11.56	14.5	0.17	2.70	3.16	0.20	0.59	3.13	-	K7312
0.07	0.27	0.63	0.00	0.02	0.04	0.00	0.01	0.01	0.003	K7312
0.15	0.59	1.27	0.00	0.05	0.09	0.01	0.03	0.05	0.008	
0.26	1.05	2.09	0.01	0.12	0.14	0.02	0.05	0.09	0.015	
0.75	3.25	6.78	0.12	0.23	0.51	0.1	0.11	0.33	0.03	
No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-	-	No abnormality	No abnormality	K7312
0.9	0.7	0.5	7.2	6.0	4.8	-	-	-	-	K7209
1.4	1.0	0.9	4.5	6.8	5.6	-	-	-	-	
-3.4	0.3	0.1	-9.04	-8.60	-7.29	-	-	-	-	K7312 No1Oil
No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-	-	No abnormality	No abnormality	K7312 10%HCl
No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-	-	No abnormality	No abnormality	K7312 10%NaOH
No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	No abnormality	-	-	No abnormality	No abnormality	K7312
0.82	2.21	2.36	0.30	0.68	1.31	-	-	-	-	K7312 80°C48hrs
0.15	0.38	7.95	0.01	0.02	0.08	-	-	-	-	
1000	775	575	660	562	492	-	-	-	-	
4.8	2.1	1.5	17.9	14.9	9.16	0.0	2.31	-	7.8	K7312 Compressibility25%
8.9	5.0	3.5	41.8	15.9	15.6	-	-	-	-	K7312 Compressibility25%
80**	80**	80**	60	60	60	60	60	5~30	60	K7312
0.81	0.67	0.09	0.15	0.07	0.06	0.10	0.12	0.00	0.20	Z0237
0mm	0mm	-	180	43	17	2	-	0	2	Z0237 1kg24hrs
8	3	3	10	6	2	8	-	UnderNO.1	8	Z0237 30°
93.4	91.4	-	0.1	0.1	0.1	-	-	-	-	
0.87	4.30	9.50	0.16	0.19	0.73	-	-	-	-	

※Regarding holding power, it is displayed instead of the time (sec) when all the test pieces are not peeled.

Notes 1) This measured value is a reference value, it is not a guaranteed value.

Notes 2) It changes without notice by specification changes.

Notes 3) These physical properties are measured values for urethane resin part, and it does not include composite material (such as glue).