

Data Item		Gel Tack	Hyper Gel			Semi-conductive Gel			Pit Cushion	Pit Cushion SOFT	Remarks (JIS No.)	
			Firmness 15	Firmness 30	Firmness 50	Firmness 15	Firmness 30	Firmness 50				
Specific gravity		1.08	1.08	1.08	1.08	1.13	1.13	1.13	1.05	1.13	K7311	
Hardness	Shore A	3	0	17	30	0	16	30	65	40	K7312	
	Shore C	25	15	30	50	15	30	50	80	64	K7312	
Tensile strength	Strength	Mpa	88.4	80.1	83.1	218.5	35.8	53.4	67.8	1381.8	158.1	K7312
	100% Tensile stress	Mpa	11.7	7.4	14.9	37.0	5.1	19.3	21.5	196.0	45.3	
	200% Tensile stress	Mpa	18.4	10.0	20.4	52.9	7.4	30.5	33.7	357.7	58.9	
	300% Tensile stress	Mpa	25.6	11.9	24.1	64.9	10.3	43.4	46.3	392.0	71.3	
Tensile elongation		%	864	1000	1000	775	656	365	414	688	726	K7312
Tear strength		N/mm	41.3	31.3	33.0	115.6	-	-	-	195.0	180.9	K7312
Compression strength	10%	Mpa	5.0	5.4	6.8	27.1	1.1	7.5	8.9	76.0	20.4	K7312
	20%	Mpa	9.9	10.9	14.9	59.4	2.7	17.4	21.2	164.2	44.7	
	30%	Mpa	14.9	17.6	25.8	104.9	4.9	30.9	38.2	303.8	76.1	
Elastic modulus in compression		Mpa	281.3	54.3	74.7	325.4	20.9	79.8	94.6	2587.2	448.8	
Toxicity	PbICP	ppm	<5	<5	<5	<5	-	-	-	<5	-	Minimum limit of determination 5ppm
	Cd	ppm	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	-	Minimum limit of determination 0.5ppm
Water resistance			Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	K7312
Water absorption (W/V)	Room temperature 24hrs	%	10.8	0.9	0.9	0.7	4.0	1.6	1.6	2.7	-	K7209
	40°C 24hrs	%	6.9	1.5	1.4	1.0	10.2	5.6	3.8	4.8	-	K7209
Oil resistance	40°C 24hrs	%	1.74	-3.7	-3.4	0.3	-	-	-	0.31	-	K7312 No1油
Acid resistance			Pass	Pass	Pass	Pass	-	Pass	Pass	Pass	Pass	K7312 HCl
Alkali resistance			Pass	Pass	Pass	Pass	-	Pass	Pass	Pass	Pass	K7312 NaOH
Environmental resistance 80°C80%		24hrs	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Heat aging stability	Tensile strength	Mpa	75.6	76.0	82.3	220.5	36.7	148.0	153.9	1773.8	206.9	K7312 80°C48hrs
	100% Tensile stress	Mpa	5.6	7.3	15.2	38.1	6.1	32.2	74.4	216.6	68.1	
	Elongation	%	1446	1000	1000	775	392	372	24.9	448	537	K7312 80°C48hrs
Compression set	70°C 22hrs	%	2.4	8.1	4.8	2.1	-	409.6	244.9	12.1	25	K7312
	100°C 70hrs	%	88.6	12.7	8.9	5.0	-	-	-	50.0	-	K7312
High temperature resistance		°C	-30~80	-30~80	-30~80	-30~80	-30~80	-30~80	-30~80	-30~80	-30~80	
Low temperature resistance		(-30°C)	No brittleness	No brittleness	No brittleness	No brittleness	No brittleness	No brittleness	No brittleness	No brittleness	No brittleness	
Adhesion	180°C Peel	N/25mm	7.55	1.18	0.81	0.67	2.25	0.95	0.55	17.84*2	-	Z0237
	Shear adhesion	sec	0mm	0mm	0mm	0mm	68	336	283	0mm	-	Z0237 1kg 24hrs
	Ball tack		20	12	8	3	22	13	11	4*2	3	Z0237 30 degrees
Coefficient friction	Coefficient static friction		-	-	-	-	-	-	-	0.82	-	K7312
	Coefficient dynamic friction		-	-	-	-	-	-	-	0.45	-	K7312
Visible light transmission		%	92.7	91.4	93.4	91.4	-	-	-	92.3	-	
Load capacity		Mpa	9.11	7.15	8.53	20.87	3.14	11.96	14.21	25.97	67.33	

Note: The above data are for reference, they are not guaranteed.

Specifications of each product are subject to change.

*1 Coefficient of friction is measured on Pit Cushion only.

*2 Measurement on the glued side of Pit Cushion.

*3 Shear adhesion is indicated by length when test materials did not peel off.

Exseal corporation

Data Item		Hitohada Gel			Hitohada Gel Clear	Clear Tack	Remarks (JIS No.)
		Firmness 0	Firmness 5	Firmness 15			
Specific gravity		1.04	1.04	1.04	1.00	1.08	K7311
Hardness	Shore A	0	0	1	0	0	K7312
	Shore C	0	5	15	0	14	K7312
Tensile strength	Strength Mpa	34.3	57.8	158.3	2.0	66.0	K7312
	100% Tensile stress Mpa	1.2	2.7	11.3	1.0	-	
	200% Tensile stress Mpa	3.0	5.3	34.5	-	-	
	300% Tensile stress Mpa	5.3	8.7	72.1	-	-	
Tensile elongation %		758	550	450	156	480	K7312
Tear strength N/mm		1.7	27.0	31.6	2.0	2.7	K7312
Compression strength	10% Mpa	0.0	2.3	3.6	0.0	-	K7312
	20% Mpa	0.1	4.7	8.6	1.0	-	
	30% Mpa	0.7	11.5	13.6	2.0	-	
Elastic modulus in compression Mpa		11.8	22.5	51.0	10.0	-	
Toxicity	PbICP ppm	<5	<5	<5	-	-	Minimum limit of determination 5ppm
	Cd ppm	<0.5	<0.5	<0.5	-	-	Minimum limit of determination 0.5ppm
Water resistance		Pass	Pass	Pass	-	-	K7312
Water absorption (W/V)	Room temperature 24hrs %	7.2	6.0	4.8	-	-	K7209
	40°C 24hrs %	4.5	6.8	5.6	-	-	K7209
Oil resistance	40°C 24hrs %	-9.04	-8.60	-7.29	-	-	K7312 No1油
Acid resistance		Pass	Pass	Pass	-	-	K7312 HCl
Alkali resistance		Pass	Pass	Pass	-	-	K7312 NaOH
Environmental resistance 80°C80% 24hrs		Pass	Pass	Pass	-	-	
Heat aging stability	Tensile strength Mpa	29.9	68.3	131.3	-	-	K7312 80°C48hrs
	100% Tensile stress Mpa	0.5	2.4	7.8	-	-	
	Elongation %	660	562	492	-	-	K7312 80°C48hrs
Compression set	70°C 22hrs %	41.8	14.9	9.16	0.0	-	K7312
	100°C 70hrs %	103	15.9	15.6	-	-	K7312
High temperature resistance °C		-30~80	-30~80	-30~80	-30~80	-	
Low temperature resistance (-30°C)		No brittleness	No brittleness	No brittleness	-	-	
Adhesion	180°C Peel N/25mm	0.15	0.07	0.06	-	0.75	Z0237
	Shear adhesion sec	180	43	17	-	231	Z0237 1kg 24hrs
	Ball tack	10	6	2	-	8	Z0237 30 degrees
Coefficient friction	Coefficient static friction	-	-	-	-	-	K7312
	Coefficient dynamic friction	-	-	-	-	-	K7312
Visible light transmission %		0.1	0.1	0.1	-	89.5	
Load capacity Mpa		1.57	1.86	7.15	-	-	

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