

COOLPROVIDE™ / CPSH



Conductivity 5 W/m·K, Flexible thermally conductive sheet

Features

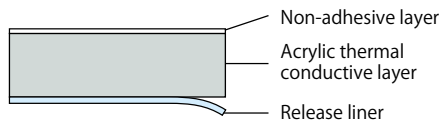
- The sheet provides both high-thermal conductivity and flexibility. (Thermal conductivity: 5 W/m·K, Hardness: ASKER C 32)
- Flexible and excellent adhesion sheet lowers contact resistance.
- Silicone-free, no siloxane outgassing.
- Oil bleeding is reduced compared to e-based thermal materials.

(The values below are not guaranteed.)

Test type	Unit	Standard	CPSH-F	CPSH
Thermal Conductivity	W/m·K	JIS R 2616 (Hot-wire method)	5.0	5.0
		ISO22007-2 (Hot Disc method)	3.7	3.7
Color	—	—	Light green	Light green
Thickness	mm	—	0.5 / 1.0 / 1.5 / 2.0	1.0 / 1.5 / 2.0
			2.5 / 3.0 / 3.5 / 4.0	2.5 / 3.0 / 3.5 / 4.0
Specific Gravity	—	JIS Z 8807	2.89	2.89
Hardness	ASKER C	JIS K 7312	32	32
	Shore 00	ASTM D 2240	64	64
Tensile strength	MPa	JIS K 6251	0.37	0.21
Elongation rate	%	JIS K 6251	28	55
Volume Resistivity	$\Omega \cdot \text{cm}$	JIS K 6911 compliant	1.0×10^{11}	1.0×10^{11}
Breakdown voltage	kV/mm	JIS C 2110-1 compliant	2.2	2.0
Withstanding voltage	kV/mm	JIS C 2110-1 compliant	1.4	1.2
Dielectric constant	1MHz	Company standard	18.2	18.8
Loss tangent	1MHz	Company standard	0.01	0.01
Flammability	—	UL94	V-0	V-0 equivalent
Operating temp	°C	—	-40~125	-40~125
Available max. dimension ^{※1}	mm	—	210×510	210×510

※1) Please contact us for available pcs/sheet.

One-side tacky type / CPSH-F



Both-side tacky type / CPSH

