



Product Information

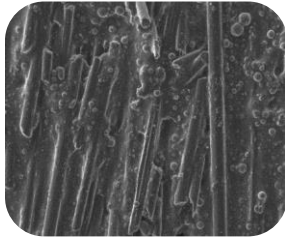
# Heat Transfer Silicone Sheets

**INDONG ELECTRONICS, Inc.**

Main Office: 54, Seo-ro, Gajang Industrial Complex, Osan-si, Gyeonggi-do 18103, Korea T.+82-375-7703 F.+82-31-7748  
Seoul Office: 5F, 20, Seoun-ro, Seocho-gu, Seoul 06734, Korea T.+82-2-2038-0882 F.+82-2-2038-0970

# IDS115M

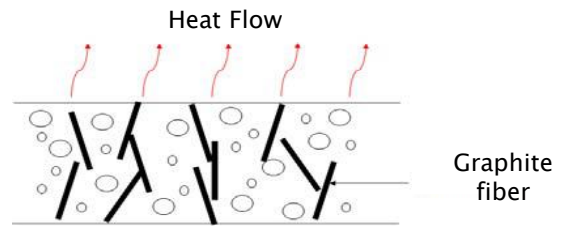
(15.0W/mK)



IDS115 series is a super high thermally conductive silicone gap filler which has process patent for aligning high density graphite fibers through the thickness of a polymer matrix. Unique high thermally conductive graphite fibers (900W/Mk) are used to create a Z-axis bulk thermal conductivity of 15W/mK. A combination of low interface resistance and high bulk conductivity enables IDS115 to reach high performance target.

## Features and Benefits

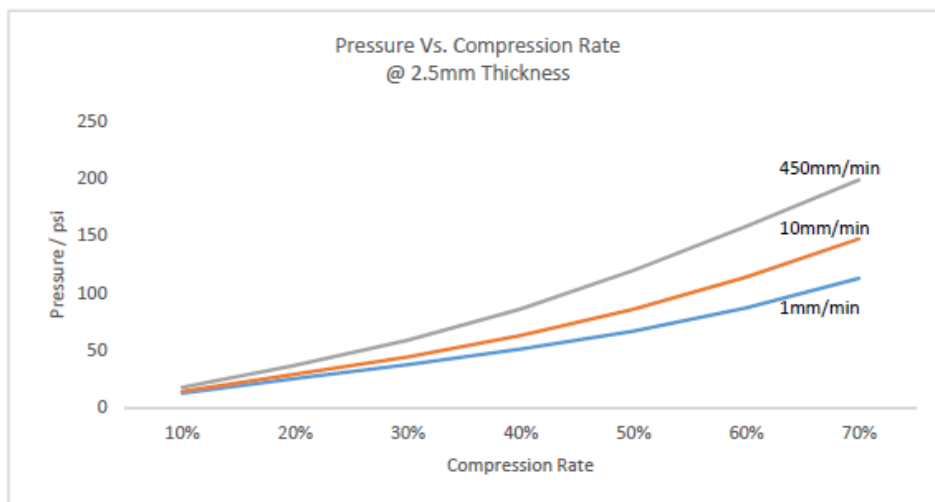
- Thermal conductivity : 15.0 W/mK (ASTM D5470)
- Low oil bleeding
- Vibration dampening and shock absorbing
- High recovery ratio



TYPICAL PROPERTIES OF HEAT TRANSFER SILICONE SHEET			
Properties	Unit	Spec	Test Method
Color	—	Dark gray	Visual
*Thickness	mm	1.0 - 5.0	ASTM D374
Use Temperature	°C	- 45 ~ 180	—
Thermal conductivity	W/mK	>15.0	ASTM D 5470
Specific Gravity	g/cc	1.9	ASTM D 792
Hardness	Shore 00	45	ASTM D 2240
Volume Resistivity	(Ω · cm)	>10 <sup>5</sup>	ASTM D 257
Dielectric breakdown voltage	kV/mm	>2.5	ASTM D149
Flame retardant level	—	V-0	UL94
**Recovery Ratio	%	75	@ 1min
		85	@ 5min

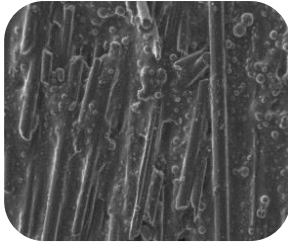
\* Thickness tolerance ±10% @ nominal thickness greater than 1mm

\*\* % Recovery = (Thickness recovered / Change in thickness) x 100 @Speed=10mm/min, Compression rate=40%, Thickness=2.5±0.2mm.



# IDS120M

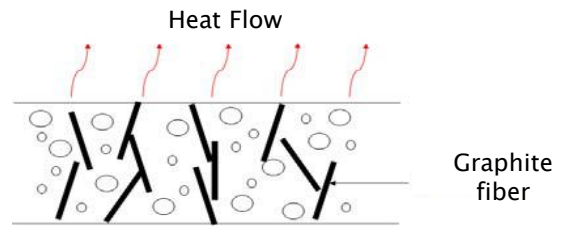
(20.0W/mK)



IDS120 series is a super high thermally conductive silicone gap filler which has process patent for aligning high density graphite fibers through the thickness of a polymer matrix. Unique high thermally conductive graphite fibers (900W/Mk) are used to create a Z-axis bulk thermal conductivity of 20W/mK. A combination of low interface resistance and high bulk conductivity enables IDS120 to reach high performance target.

## Features and Benefits

- Thermal conductivity : 20.0 W/mK (ASTM D5470)
- Low oil bleeding
- Vibration dampening and shock absorbing
- High recovery ratio



TYPICAL PROPERTIES OF HEAT TRANSFER SILICONE SHEET			
Properties	Unit	Spec	Test Method
Color	—	Dark gray	Visual
*Thickness	mm	1.0 - 5.0	ASTM D374
Use Temperature	°C	- 45 ~ 180	—
Thermal conductivity	W/mK	>20.0	ASTM D 5470
Specific Gravity	g/cc	2.0	ASTM D 792
Hardness	Shore 00	45	ASTM D 2240
Volume Resistivity	(Ω · cm)	>10 <sup>5</sup>	ASTM D 257
Dielectric breakdown voltage	kV/mm	>2	ASTM D149
Flame retardant level	—	V-0	UL94
**Recovery Ratio	%	75	@ 1min
		85	@ 5min

\* Thickness tolerance ±10% @ nominal thickness greater than 1mm

\*\* % Recovery = (Thickness recovered / Change in thickness) x 100 @Speed=10mm/min, Compression rate=40%, Thickness=2.5±0.2mm.

