

# TR332CU

## Composites Material For Heat Spreader

LiPOLY TR332CU is a thermally conductive film consisting of a thin graphite heat spreader laminated onto a thin copper film for superior thermal management and ease of manufacture.

TR332CU can be supplied in various manufacturing friendly formats and custom die-cut for the ultimate convenience.

### Features-

- Excellent heat transfer
- Manufacturing friendly form-factor
- Can be custom die-cut
- Flexibly conforms to surfaces

### Typical Applications-

- Set top box
- NB
- Projector
- Mobile phone
- Hand held devices

### Specifications-

- Sheet form
- Die-cut parts



### Typical Properties-

PROPERTY	TR332CU		TEST METHOD	UNIT
Color	Black		Visual	-
Thickness	0.10	0.15	ASTM D374	mm
Weight loss	<0.1	<0.1	By LiPOLY	%
Application temperature	-60~120	-60~120	-	°C
Short time Temp. @30sec	150	150	-	°C
<b>ADHESION</b>				
Initial tack	25	11	PSTC-6	cm
<b>RADIATION</b>				
Heat emissivity coefficient	0.96	0.96	ASTM C1371	-
<b>ELECTRICAL</b>				
Dielectric strength(ACV)	1	1.5	ASTM D149	KV
Surface resistivity	>10 <sup>11</sup>	>10 <sup>11</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>11</sup>	>10 <sup>11</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>				
Thermal Conductivity XY axis	1500	1500	ASTM D5470	W/m*K
Thermal Conductivity Z axis	1.2	1.2	ASTM D5470	W/m*K