

Graphene

High Thermal Conductive Graphene Composites Product manual



High Thermal Conductive Graphene Composites

【Introduction】

As downstream application products of graphene, they exhibit high performance properties of weight reduction, excellent strength, efficient heat dissipation and anti-corrosion capability etc.. It is suitable for applications in the fields of LED light system, EV, unmanned aircraft, electronic and microelectronic systems, telecommunication technology etc.

【Product Features】

1. Excellent thermal conductivity and heat dissipation performance;
2. Low density;
3. High mechanical strength, excellent rigidity and impact resistance;
4. Excellent corrosion resistance, suitable for streetlights in coastal area;
5. Simple and fast processing and forming, environmental friendly.

【Main Components】 Graphene, Mixed Polymer Resins

【Product Models】 DZ-PGC-LH03, DZ-PGC-LH03F

【Technical Data Sheet】

Properties	Unit	Specification		Test Method
		DZ-PGC-LH03	DZ-PGC-LH03F	
Size	(mm)	100x100	300x300	GB/T19367-2009 GB/T3177-2009
Thickness	(mm)	3±0.1	5±0.1	
Density	g/cm ³	1.3±0.1		GB/T1033.1-2008
Thermal Conductivity (H)	W/mk	≥14		GB/T22588-2008
Thermal Conductivity (V)	W/mk	≥2.5		
Resistance	(Ω)	0.05-0.5		GB/T3048.5-2007
Specific Resistance	(Ω.cm)	0.05-0.5		GB/T3048.5-2007
Sheet Resistivity	(Ω/□)	0.1-1.0		GB/T3048.5-2007
Flexural Stress	Mpa	≥45		GB/T9341-2008

Tensile Strength	Mpa	≥20	GB/T1040.1-2006
Charpy Impact Strength (7.5J)	KJ/m2	≥3	GB/T1043.1-2008
Deflection T under Load	°C	> 230°C (Tfx=1.82Mpa) > 230°C (Tfx=8Mpa)	GB/T1634.2-2004
Flammability	-	V0	UL94

【Notes】

1. Before using the product, please read the Materials Safety Data Sheet (MSDS) and the Hazardous

Materials Identification System (HMIS) first.

【Instructions on safety, health, and environmental protection】

1. Gently loading and unloading during product transportation.
2. When dispose the product, please comply with relevant laws, rules, and regulations of the disposal of waste.

【HMIS (Hazardous Material Identification System)】

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

Classification:

0= No effect
1=Light
2= Moderate
3=high
4= Extreme
Personal Protective Equipment:
A=Glasses;
B=Glasses +Gloves