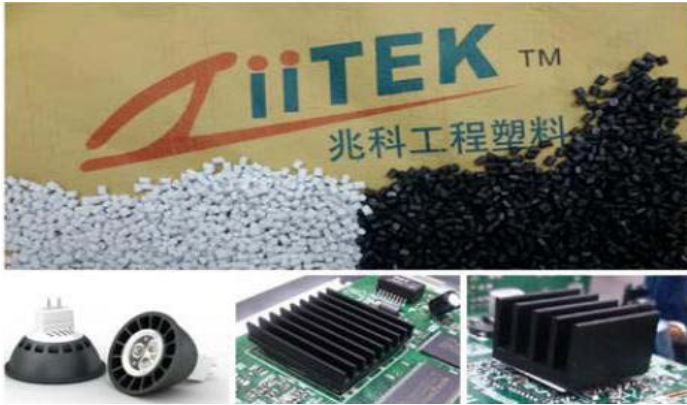




專業導熱材料生產廠
Professional TIM Manufacturer
<http://www.ziitek.com>

TCP™300PS-09-06A1 Thermally Conductive Plastic



TCP™300PS-09-06A1 is a Thermally Conductive Engineering Plastic developed for the housing design which requires high thermal conductivity and reduces the weight more than 30% comparing with the same aluminium devices.

Application

TCP™300PS-09-06A1 can be used in applications such as Heat Sinking Housing at LED-lit BLU in LCD/LED TV and LED-lit lamps such as MR16. Also it can replace the normal Aluminum heat sink.

Features

- » Good thermal conductivity: **0.9W/mK**
- » Excellent thermal conductivity compared to normal engineering plastics
- » Lighter than normal Aluminum housing 30% in weight
- » Excellent mould ability in injection moulding
- » Much higher production yield than normal Aluminum Die Casting
- » Excellent flexibility in designing final products such as housings.
- » UL94 V-0 .

Typical Properties of TCP™300PS-09-06A1

Items	Test method	Unit	Typical data
Physical Properties			
Material	*****	*****	Nylon/Polybenzene thioether
Color	Visual	*****	White
Melt index	ASTM D1238	g/10min	100±10
Specific Gravity	ASTM D792	g/cm ³	1.6±0.05
Bibulous rate ,saturated	ASTM D955	*****	2
Mechanical Properties			
Tensile Strength	ASTM D638	MPa	65±5
Flexural Strength	ASTM D790	MPa	110±5
Flexural Modulus	ASTM D638	MPa	5500±300
Impact Strength, notched	ASTM D256	kJ/m ²	23±3
Electrical Properties			
Dielectric Constant, 1MHz	ASTM D150	***	4.5
Dielectric strength,1.0mm	ASTM D149	Kv	10
Volume Resistivity	ASTM D257	Ohm-meter	9.0*10 ¹²
Thermal Properties			
Heat Deflection Temperature	ASTM D648	°C	190
Thermal Conductivity Through Plane	ASTM E1461	W/m-K	0.9
Flame Retardancy	Min. thick. 1.0mm	Class	V-0

*These are typical values and should not be used for establishing product specification. The properties may vary upon the machine process under use. For more information please contact Ziitek Tech directly.

Gap Fillers | Pouring sealant | Silicon tape | Thermally Conductive paste | Flake graphite | Thermally Conductive Insulators
Ceramic heat | Thermally Conductive plastic | Thermally Conductive Adhesive Tapes

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The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.

Injection Parameters of Recommends

TCP™300PS-09-06A1 Injection parameters		Value Range
Barrel Zone Temperature	One sect / °C	250-280°C
	Two sect / °C	260-290°C
	Three sect / °C	250-270°C
Mouth Temperature / °C		270-290°C
Melt Temperature / °C		270-290°C
Bake Temperature / °C		100-120°C 4H
Mould Temperature / °C		By platform tonnage
Injection Pressure / Bar		By platform tonnage
Injection Speed / mm/s		Medium speed
Remarks: Data from the laboratory of the Division I ① above are for reference only, not as a product standard reference. ② The typical processing conditions according to different models, different mold and product requirements to make the appropriate adjustments.		

Handling & Safety

TCP™300PS should be used in accordance with good industrial practice. For more detailed information please contact Ziitek technical service

Supply Appearance And Standard Packing

TCP™300PS is supplied in regular pellet form packaged in polyethylene bags.

Net weight is 25kg per bag. For more information please contact us.



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