TCP™300PS-09-02A is a Thermally Conductive Engineering Application Plastic developed for the housing design which requires high thermally conductivity and reduces the weight more than 30% comparing with the same aluminium devices.

TCP™300PS-09-02A 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



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 Castin
- » Excellent flexibility in designing final products such as housings.
- » UL94 V-0 (Ready).

Typical Properties of TCP [™] 300PS-09-02A					
Items	Test method	Unit	Typical data		
Physical Properties					
Material	****	****	nylon		
Color	Visual	****	Black		
Melt index	GB/T 3682-2000	g/10min	64.85		
Specific Gravity	GB/T 1033.1-2008	g/cm ³	1.7		
Shrinkage	GB/T 17037.4-2003	%	0.3~0.6		
Mechanical Properties					
Tensile Strength	GB/T 1040.2-2006	Мра	75.8		
Flexural Strength	GB/T 9341-2008	Мра	75.1		
Flexural Modulus	GB/T 9341-2008	MPa	9500		
Impact Strength, notched	GB/T 1843-2008	kJ/m ²	22.12		
Electrical Properties					
Dielectric Breakdown Voltage	ASTM D149	VAC	>10000		
Dielectric Constant, 1MHz	ASTM D150	****	4.5		
Volume Resistivity	ASTM D257	Ohm-meter	7.0 X 1012		
Thermal Properties					
Heat Deflection Temperature	ASTM D648	°C	170		
Thermal Conductivity Throngh 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.

	Pouring sealant Silicon Ceramic heat sinks Th			
<u>Canada:</u> Tel:+001-604-2998559 E-mail: sales@thermazig.com	Tel: +886-2-22771007 Fax: +886-2-22771075 E-mail: frances@ziitek.com.tw	Dongguan: Tel: +86-769-38801208 Fax: +86-769-83791290 E-mail: angus@ziitek.com	Kunshan: Tel: +86-512-57816297 Fax: +86-512-57816327 E-mail: kelvin@ziitek.com	Hangzhou: Tel: +86-0571-63850366 Fax: +86-0571-63850322 E-mail: alex@ziitek.com
	rein are believed to be reliable but are erification and testing to determine th			

http://www.ziitek.com

TCP [™] 300PS-09-02A Inje	Value Range				
	One sect / ℃	250-280°C			
Barrel Zone Temperature	Two sect / ℃	260-290°C			
	Three sect / $^\circ\!C$	250-270°C			
Mouth Temperature / $^{\circ}$ C		270-290°C			
Melt Temperature / °C		270-290°C			
Bake Temperature / °C		100-120°C 4H			
Mould Temperature / °C		According to the machine tonnage			
Injection Pressure / Bar		According to the machine 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 adj

Handling & Safety

TCP™300PS-09-02A 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-09-02A is supplied in regular pellet form packaged in polyethylene bags. Net weight is 25kg per bag. For more information please contact us.



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

Canada: Tel:+001-604-2998559 E-mail: sales@thermazig.com Taiwan: Tel: +886-2-22771007 Fax: +886-2-22771075 E-mail: frances@ziitek.com.tw Dongguan: Tel: +86-769-38801208 Fax: +86-769-83791290 E-mail: angus@ziitek.com

Kunshan: Tel: +86-512-57816297 Fax: +86-512-57816327 E-mail: kelvin@ziitek.com Hangzhou:

Tel: +86-0571-63850366 Fax: +86-0571-63850322 E-mail: alex@ziitek.com

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.