



**TCP™300PS-10-02S Series** is a kind of thermal insulation polyphenylene sulfide material, with high thermal conductivity, electric conductivity, chemical resistance and heat resistance. This product is mainly used in automotive, electronic and electrical fields, used to make structural parts, shells, supports, trays and other parts that require insulation and heat conduction

**Features**

- › Good thermal conductivity
- › High mechanical strength and excellent compression and shear properties
- › Excellent creep property at high temperature and high fatigue resistance to repeated stress. In addition, due to the high heat resistance of the solder, it can fully withstand surface mount technology
- › Ionic impurities are very few and are used in fields where electrical properties are strictly required› Much higher production yield than
- › UL94 V-0

**Application**

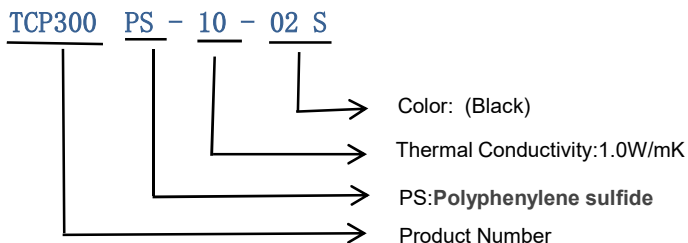
- › Automobile engine and peripheral products
- › Electric products for electric vehicles.
- › Mobile phone products
- › Mixed faucets in bathrooms and lavatories, etc.

Typical Properties of TCP™300PS-10-02S Series		
Color	Black	Visual
Construction	Polyphenylene sulfide	*****
Specific Gravity (g/cc)	1.7	ASTM D792
Mold Shrinkage	0.03%	ASTM D995
Moisture Absorption	0.00%	ASTM D570
Tensile Strength Type I,5mm/min (Mpa)	33	ASTM D638
Flexural Strength (Mpa)	66	ASTM D790
Flexural Modulus (Mpa)	9200	ASTM D790
Impact Strength, notched (cm-kgf/cm)	61	ASTM D256
Impact Strength, unnotched (cm-kgf/cm)	102	ASTM D1461
Surface Resistivity	≥10 <sup>12</sup> Ohm-cm	ASTM D257
HDT,0.45MPa,6.4mm	210 °C	ASTM D648
HDT,1.82MPa,6.4mm	260 °C	ASTM D648
Thermal Conductivity Through Plane	1.1W/mK	ISO22007-2.2
Flame retardancy	Equal to UL 94 V0	*****

**Product Specification**

We offer the polyethylene particles for 25kg per package.

**Product model description**



Thermally Conductive Materials    Heat Generating Materials    Thermally Conductive Plastics    Die-Cutting Products    Foaming Silica Gel

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TCP™ 300PS-10-02S PROCESSING PARAMETERS		
Injection Molding	TYPICAL VALUE	Unit
Drying Temperature	80-90	°C
Drying Time	3-4	hrs
Maximum Moisture Content	0.01	%
Melt Temperature	250-280	°C
Nozzle Temperature	250-280	°C
Front - Zone 3 Temperature	250-280	°C
Middle - Zone 2 Temperature	240-280	°C
Rear - Zone 1 Temperature	230-270	°C
Mold Temperature	80-100	°C
Back Pressure	3-9	Mpa
Screw Speed	30-150	rpm

<p>Notes:</p> <p>Data from the laboratory of the Division I ① above are for reference only, not as a product standard reference.</p> <p>② The typical processing conditions according to different models, different mold and product requirements to make the appropriate adjustments.</p>
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### Safety and Handling issues:

Please follow the correct and safe operation procedures when operating this product. Because the plastic in the processing process exceeds the melting temperature will release containing irritating smoke, so the processing area should have good ventilation and safety measures, if necessary, please use local pumping system to increase ventilation. Wear glasses, chemical-resistant clothing and thermal gloves when working to avoid direct contact. For detailed information, please contact the company directly for product safety instructions on engineering control, personal protection equipment and first treatment measures.

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