

PPS????????????????????0.05%????????????????????????????????

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PPS??1×10¹⁶.cm????????1×10¹⁵????

??>18KV/mm.

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PPS??

PPS??1????????????????????????

The mechanical strength of PPS resin is not very high. After glass fiber or carbon fiber reinforced or mineral filled, the strength and rigidity of PPS resin increase exponentially, and it has excellent creep resistance and fatigue resistance. High surface hardness, Rockwell hardness & GT. 100HR, tensile strength & GT. 170mpa, bending strength & GT. 220mpa, notched impact strength > 16MPa, bending modulus & GT. 3.5 × 10⁴. Chemical resistance of PPS is excellent, second only to polytetrafluoroethylene, it is insoluble in any organic solvent below 200 ° C, and is highly resistant to inorganic acids, bases and salts except for strong oxidizing acids. And very stable to all kinds of radiation. The size stability of PPS resin after composite molding shrinkage is very low, less than the absorption rate is less than 0.05% , the Coefficient of thermal expansion is also small. It shows good dimensional stability under high temperature and high humidity. PPS has excellent electrical insulation and dielectric strength, and has excellent electrical properties at high temperature, high humidity and high frequency. Its volume resistivity is 1 × 10¹⁶ .Cm, the surface resistivity is 1 × 10¹⁵ , the electrical strength is > 18 kv/mm. Workability PPS resin liquidity is very good, can be processed by a variety of methods molding, fiber reinforced or filled, still can be injection molding complex and thin-walled products. PPS with metal and non-metal adhesion especially on glass, aluminum, titanium, stainless steel and so on have very high bonding strength, adhesion to 1 level. Good adhesion to glass, very suitable for chemical equipment lining.