

LTP ZC-1180

Linear Polyphenylene Sulfide
Chengdu Letian Plastics Co., Ltd

Message:

Resin of LTP ZC-1000 serials is reinforced materials with high performance based on high linear PPS. Its characteristics are as following:
Outstanding resistant to elevated temperatures: the retention rate of mechanical robustness is above 75% under 200°C. Even at 240°C for 30 minutes, the retention rate is above 60%.
Superexcellent resistance to solvent: It can not be dissolved by a known solvent under 200°C. Dip in solvent such as alcohol/gasoline (1: 9), diesel oil, engine oil and benzene for about 180 days, the swelling of surface is low to 0.01 μm. Dip in boiling water for 168 hours, the expansion of volume is low to 0.01 μm. For its characteristics of high strength and low density, PPS of LTPZC-1000 serials are broadly prepare parts for high temperature condition applied in many fields such as aerospace, petrochemical industry, automobile, machine, household appliances and so on.
Automotive: water pump, oil pump rotor, Flame lighter, rear-view mirror, oil basin, fuel pipe, fan paddle, blast pipe, muffler, cell case, pedal, seat frame, cover sheet, fender-guard, hand grip and so forth.
Machine: water pump, oil pump , liquefied gas pump, valve, pipe fitting, printing and dyeing machine, paper manufacture machine, rolling stock, train, machine for food and medical treatment.
Household appliances: structure and parts for center air-conditioning, cooker, microwave-oven, electromagnetic oven, electric water heater, shower nozzle, electric hair dryer, insulated canteen , electric oven, electric dry oven and so on.

General Information			
Filler / Reinforcement	Filler		
Features	High Heat Resistance		
	Oil Resistant		
	Solvent Resistant		
Uses	Aerospace Applications		
	Appliances		
	Automotive Applications		
	Industrial Applications		
	Machine/Mechanical Parts		
	Pump Parts		
Appearance	Colors Available		
Physical	Nominal Value	Unit	Test Method
Density	1.45 to 1.80	g/cm ³	GB/T 1033
Water Absorption (Saturation, 23°C)	0.20 to 0.40	%	GB/T 1034
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	180	MPa	GB/T 1040
Tensile Strain (Break)	10	%	GB/T 1040
Flexural Stress	100	MPa	GB/T 1042
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	GB/T 1043
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature	> 260	°C	GB/T 1634
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+12 to 1.0E+14	ohms	GB/T 1410
Volume Resistivity	3.0E+12 to 5.0E+14	ohms·cm	GB/T 1410
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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