

LTP ZW-3180

Linear Polyphenylene Sulfide
Chengdu Letian Plastics Co., Ltd

Message:

Resin of LTP ZW-3000 serials is crystal whisker reinforced materials with wear-resisting property based on high molecular weight linear PPS. Its characteristics are as following:

(1)elevated temperature property: long run under 180-220°C;

(2)self-lubricating property: work for long time without any lubrication additive under usage temperature;

(3)resistance to solvent: not swelling in oil, organic solvent, especially in gasoline, diesel oil, alcohols and aromatic series esters;

(4)high thermal conduction: the heat by friction can transfer through metal parts or air when used under elevated temperature?

As high strength and low density in one, Resin of LTP ZW-3000 serials are broadly applied as wear resisting parts under elevated temperature and humidity work conditions for aerospace, automotive, machine, household appliances, petroleum and chemical industry, such as bearing, axile bush, gear wheel, impeller blade, belt roller, brake block and so on.

General Information			
Features	Alcohol Resistant		
	Fuel Resistant		
	Good Wear Resistance		
	High Heat Resistance		
	High Molecular Weight		
	High Strength		
	Low Density		
	Oil Resistant		
	Self Lubricating		
	Solvent Resistant		
	Thermally Conductive		
Uses	Appliance Components		
	Automotive Applications		
	Bearings		
	Gears		
	Industrial Applications		
	Machine/Mechanical Parts		
	Rollers		
	Wheels		
Appearance	Colors Available		
Physical	Nominal Value	Unit	Test Method
Density	1.52 to 1.82	g/cm ³	GB/T 1033
Melt Mass-Flow Rate (MFR)	20 to 120	g/10 min	GB/T 3682
Molding Shrinkage ¹			
Across Flow : 3.00 mm	0.30 to 0.50	%	
Flow : 3.00 mm	0.20 to 0.40	%	

Water Absorption (Saturation, 23°C)	0.20 to 0.40	%	GB/T 1034
PV Limit	800 to 1600		
Wear Factor ²	0.00200 to 0.100	mm ³ /kg/km	
Heat Deflection Temperature	245 to 270	°C	GB/T 1634
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80 to 120		GB/T 9342
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	180	MPa	GB/T 1040
Tensile Strain (Break)	0.60	%	GB/T 1040
Flexural Stress	220	MPa	GB/T 1042
Compressive Stress	260	MPa	GB/T 1041
Coefficient of Friction (Dynamic)	0.10 to 0.30		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	GB/T 1043
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+14	ohms	GB/T 1410
Volume Resistivity	1.0E+10 to 1.0E+13	ohms·cm	GB/T 1410
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	80x80x3 mm		
2.	45# Steel		

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