

# LTP ZC-1180 GF+CF 40%

Polyphenylene Sulfide

Chengdu Letian Plastics Co., Ltd

## Message:

For its high rigidity and excellent combination properties, PPS is ideal materials of automobile for light weight.

For varied function of parts, PPS for automobile is required to have high rigidity, high stiffness, high toughness, resistance to abrasion, corrosion resistant, resistance to solvent, resistance to temperature leap, resistance to hot water creep deformation, easy to process and good dimensional stability. The structure materials, wear resistant materials, resistant materials, heat leap resistant materials, solvent resistant materials and precise molding materials developed by LETIAN Plastics can meet the increasing need of automobile industry.

1, structure materials -LTP ZC1180A series

The bearing structure parts of automobile such as fender-guard, cover sheet, pedal, hand knob and seat frame, un-bearing parts such as tank cover, discharge pipe, water tank, back mirror cover and lamp shade are all need higher mechanical strength. It includes not only high rigidity, but high shock strength. The LTP ZC1180A series resin reinforced by crystal whisker of LETIAN Plastic improve the shortages about toughness and mechanic strength of common PPS resin reinforced by 40% glass fiber.

General Information		
Filler / Reinforcement	Glass\Carbon Fiber,40% Filler by Weight	
Features	Good Abrasion Resistance	
	Good Corrosion Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Processability	
	Good Wear Resistance	
	High Rigidity	
	High Stiffness	
	Solvent Resistant	
	Ultra High Toughness	
Uses	Automotive Applications	
Physical	Nominal Value	Unit
Density	1.65	g/cm <sup>3</sup>
Melt Mass-Flow Rate (MFR)	55	g/10 min
Mechanical	Nominal Value	Unit
Tensile Stress	180	MPa
Tensile Strain (Break)	1.6	%
Flexural Modulus	15500	MPa
Flexural Stress	250	MPa
Impact	Nominal Value	Unit
Charpy Notched Impact Strength	10	kJ/m <sup>2</sup>
Charpy Unnotched Impact Strength	50	kJ/m <sup>2</sup>

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