

SHINSTRA WM40PT

Polyamide 66

Shinil Chemical Industry Co., Ltd.

Message:

SHINSTRA is our flagship product - provide improved modulus, impact resistance and heat resistance which are the weak points of plastic materials. Generally, SHINSTRA satisfy requirements by customizing (1) impact resistance, (2) scratch resistance, (3) abrasion, (4) chemical resistance, (5) processability and (6) heat resistance. In addition to the excellent products, we are offering total solution optimizing product design and customer's process lines through Computer Aided Engineering (CAE).

SHINSTRA can be produced with PC, HIPS, PE, PP, PA-6 and PA-6,6 in our proprietary dispersion technology and used in many applications such as exterior and interior auto parts, home appliance and construction materials.

APPLICATION: friction bearing

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE + Molybdenum Disulfide Lubricant		
Features	Lubrication		
Uses	Electrical appliances		
	Architectural application field		
	Car interior parts		
	Automotive exterior parts		
	Bearing		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.61	g/cm ³	ISO 1183
Molding Shrinkage	0.50 - 0.70	%	Internal method
Moisture Content	0.050	%	ISO 15512
Ash Content	52 - 58	%	ISO 3451-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2/5
Tensile Stress (Break)	80.0	MPa	ISO 527-2/5
Flexural Modulus ¹	6500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-40°C	3.0	kJ/m ²	ISO 180/1A
23°C	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
Melting Temperature (DSC) ²	260	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	1.0E+14	ohms	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Processing (Melt) Temp	270 - 290	°C	
NOTE			
1.	2.0 mm/min		
2.	10°C/min		
3.	23°C/50% RH		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

