

# SHINSTRA WG35TMS

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: gear part

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE + Molybdenum Disulfide Lubricant		
Features	Lubrication		
Uses	Gear		
	Electrical appliances		
	Architectural application field		
	Car interior parts		
	Automotive exterior parts		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.41	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.40 - 1.0	%	Internal method
Moisture Content	0.040	%	ISO 15512
Ash Content	32 - 38	%	ISO 3451-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11200	MPa	ISO 527-2/5
Tensile Stress (Break)	200	MPa	ISO 527-2/5
Flexural Modulus <sup>1</sup>	9600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-40°C	11	kJ/m <sup>2</sup>	ISO 180/1A
23°C	12	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	°C	ISO 75-2/A

Melting Temperature (DSC) <sup>2</sup>	260	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>3</sup>	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

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