

SHINSTR A WG30TKB

Polyamide 66

Shinil Chemical Industry Co., Ltd.

Message:

SHINSTR A is our flagship product - provide improved modulus, impact resistance and heat resistance which are the weak points of plastic materials. Generally, SHINSTR A 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).

SHINSTR A 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: cylinder head cover

| General Information | | | |
|---|---------------------------------|-------------------|-----------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Uses | Electrical appliances | | |
| | Architectural application field | | |
| | Car interior parts | | |
| | Automotive exterior parts | | |
| Appearance | Black | | |
| Physical | Nominal Value | Unit | Test Method |
| Density (23°C) | 1.37 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 0.30 - 0.70 | % | Internal method |
| Moisture Content | 0.040 | % | ISO 15512 |
| Ash Content | 27 - 33 | % | ISO 3451-1 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 9600 | MPa | ISO 527-2/5 |
| Tensile Stress (Break) | 175 | MPa | ISO 527-2/5 |
| Flexural Modulus ¹ | 8500 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | 7.0 | kJ/m ² | ISO 179/1eA |
| 23°C | 8.0 | kJ/m ² | ISO 179/1eA |
| Notched Izod Impact | | | ISO 180/1A |
| -40°C | 7.0 | kJ/m ² | ISO 180/1A |
| 23°C | 9.0 | kJ/m ² | 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) 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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