

# VENYL ST208 - 7935

Polyamide 6

AD majoris

## Message:

VENYL ST208 - 7935 is a 25 % mineral filled polyamide 6 intended for Injection moulding.

### APPLICATIONS

VENYL ST208 - 7935 has been developed especially for very demanding applications in automotive industry and electrical parts.

VENYL ST208 - 7935 is available in both natural (VENYL ST208) and black (VENYL ST208-8229) but other colours can be provided on request.

| General Information                          |                              |                   |             |
|----------------------------------------------|------------------------------|-------------------|-------------|
| Filler / Reinforcement                       | Mineral,25% Filler by Weight |                   |             |
| Features                                     | Recyclable Material          |                   |             |
| Uses                                         | Automotive Applications      |                   |             |
|                                              | Electrical Parts             |                   |             |
| Appearance                                   | Black                        |                   |             |
|                                              | Colors Available             |                   |             |
|                                              | Natural Color                |                   |             |
| Forms                                        | Pellets                      |                   |             |
| Processing Method                            | Injection Molding            |                   |             |
| Physical                                     | Nominal Value                | Unit              | Test Method |
| Density                                      | 1.33                         | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                            | 0.70 to 1.1                  | %                 |             |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 1.9                          | %                 |             |
| Mechanical                                   | Nominal Value                | Unit              | Test Method |
| Tensile Modulus                              | 6000                         | MPa               | ISO 527-2   |
| Tensile Stress (Break)                       | 73.0                         | MPa               | ISO 527-2   |
| Tensile Strain (Break)                       | 4.0                          | %                 | ISO 527-2   |
| Flexural Modulus                             | 4500                         | MPa               | ISO 178     |
| Flexural Stress                              | 150                          | MPa               | ISO 178     |
| Impact                                       | Nominal Value                | Unit              | Test Method |
| Charpy Notched Impact Strength               | 7.0                          | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength             | 33                           | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                      | Nominal Value                | Unit              | Test Method |
| Heat Deflection Temperature                  |                              |                   |             |
| 0.45 MPa, Unannealed                         | 195                          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                          | 175                          | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)                    | 220                          | °C                | ISO 3146    |
| Electrical                                   | Nominal Value                | Unit              | Test Method |

|                                         |                      |         |             |
|-----------------------------------------|----------------------|---------|-------------|
| Surface Resistivity                     | 1.0E+13              | ohms    | DIN 53482   |
| Volume Resistivity                      | 1.0E+14              | ohms·cm | DIN 53482   |
| Comparative Tracking Index (Solution A) | 600                  | V       | IEC 60112   |
| Flammability                            | Nominal Value        | Unit    | Test Method |
| Flame Rating (1.60 mm)                  | HB                   |         | UL 94       |
| Injection                               | Nominal Value        | Unit    |             |
| Drying Temperature                      | 80.0                 | °C      |             |
| Drying Time                             | 4.0                  | hr      |             |
| Rear Temperature                        | 265 to 280           | °C      |             |
| Middle Temperature                      | 255 to 270           | °C      |             |
| Front Temperature                       | 255 to 270           | °C      |             |
| Nozzle Temperature                      | 240 to 275           | °C      |             |
| Mold Temperature                        | 60.0 to 100          | °C      |             |
| Injection Pressure                      | 60.0 to 90.0         | MPa     |             |
| Injection Rate                          | Fast                 |         |             |
| Holding Pressure                        | 50.0 to 70.0         | MPa     |             |
| Screw L/D Ratio                         | 15.0:1.0 to 20.0:1.0 |         |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

