

# Sindustris POM GC226

Acetal (POM) Homopolymer

Sincerity Australia Pty Ltd.

## Message:

Sindustris POM GC226 is an Acetal (POM) Homopolymer material filled with 25% glass fiber. It is available in Asia Pacific for injection molding. Important attributes of Sindustris POM GC226 are:

Flame Rated

Rigid

Typical application of Sindustris POM GC226: Engineering/Industrial Parts

| General Information                              |                                  |                   |             |
|--------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                           | Glass Fiber,25% Filler by Weight |                   |             |
| Features                                         | High Rigidity                    |                   |             |
| Uses                                             | Bearings                         |                   |             |
|                                                  | Pump Parts                       |                   |             |
| UL File Number                                   | E306922                          |                   |             |
| Processing Method                                | Injection Molding                |                   |             |
| Physical                                         | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                 | 1.59                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)        | 10                               | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)               | 0.40 to 0.90                     | %                 | ASTM D955   |
| Hardness                                         | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                      | 85                               |                   | ASTM D785   |
| Mechanical                                       | Nominal Value                    | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)   | 127                              | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.20 mm)          | 7850                             | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)         | 196                              | MPa               | ASTM D790   |
| Impact                                           | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 6.40 mm)              | 88                               | J/m               | ASTM D256   |
| Thermal                                          | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load                |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed, 6.40 mm                    | 160                              | °C                |             |
| 1.8 MPa, Unannealed, 6.40 mm                     | 165                              | °C                |             |
| Electrical                                       | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                              | 1.0E+14                          | ohms              | ASTM D257   |
| Volume Resistivity (23°C)                        | 1.0E+16                          | ohms · cm         | ASTM D257   |
| Flammability                                     | Nominal Value                    | Unit              | Test Method |
| Flame Rating                                     |                                  |                   | UL 94       |
| 0.750 mm                                         | HB                               |                   |             |

| 1.50 mm                | HB            |      |
|------------------------|---------------|------|
| 3.00 mm                | HB            |      |
| Injection              | Nominal Value | Unit |
| Drying Temperature     | 90.0 to 110   | °C   |
| Drying Time            | 2.0 to 3.0    | hr   |
| Suggested Max Moisture | 0.10          | %    |
| Rear Temperature       | 180 to 200    | °C   |
| Middle Temperature     | 190 to 210    | °C   |
| Front Temperature      | 200 to 220    | °C   |
| Nozzle Temperature     | 200 to 220    | °C   |
| Processing (Melt) Temp | 210 to 220    | °C   |
| Mold Temperature       | 60.0 to 110   | °C   |
| Back Pressure          | 0.00 to 4.02  | MPa  |
| Screw Speed            | 40 to 75      | rpm  |
| NOTE                   |               |      |
| 1.                     | 5.0 mm/min    |      |
| 2.                     | 5.0 mm/min    |      |
| 3.                     | 1.3 mm/min    |      |
| 4.                     | 1.3 mm/min    |      |

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

