

# Titacon® NC940

Acetal (POM) Copolymer

Titan Plastics Compounds Co., Ltd.

## Message:

Titacon® NC940 is a polyoxymethylene (POM) copolymer material, which contains carbon nano-filler. This product is available in the Asia-Pacific region. Titacon® The main characteristics of NC940 are: flame retardant/rated flame.

| General Information                                        |                     |                   |             |
|------------------------------------------------------------|---------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Carbon nano filler  |                   |             |
| Features                                                   | Antistatic property |                   |             |
| Appearance                                                 | Black               |                   |             |
| Physical                                                   | Nominal Value       | Unit              | Test Method |
| Density                                                    | 1.40                | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> (3.00 mm)                   | 1.6 - 2.0           | %                 |             |
| Mechanical                                                 | Nominal Value       | Unit              | Test Method |
| Tensile Stress                                             | 60.0                | MPa               | ISO 527-2   |
| Tensile Strain (Break)                                     | > 10                | %                 | ISO 527-2   |
| Flexural Modulus                                           | 2600                | MPa               | ISO 178     |
| Flexural Stress                                            | 90.0                | MPa               | ISO 178     |
| Impact                                                     | Nominal Value       | Unit              | Test Method |
| Charpy Notched Impact Strength                             | 5.0                 | kJ/m <sup>2</sup> | ISO 179/1eA |
| Thermal                                                    | Nominal Value       | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed)          | 110                 | °C                | ISO 75-2/A  |
| Electrical                                                 | Nominal Value       | Unit              | Test Method |
| Surface Resistivity                                        | 1.0E+6              | ohms              | IEC 60093   |
| Volume Resistivity                                         | 1.0E+6              | ohms · cm         | IEC 60093   |
| Flammability                                               | Nominal Value       | Unit              | Test Method |
| Flame Rating                                               | HB                  |                   | UL 94       |
| Injection                                                  | Nominal Value       | Unit              |             |
| Drying Temperature                                         | 100                 | °C                |             |
| Drying Time                                                | 3.0                 | hr                |             |
| Processing (Melt) Temp                                     | 170 - 200           | °C                |             |
| Mold Temperature                                           | 60.0 - 100          | °C                |             |
| Injection instructions                                     |                     |                   |             |
| Injection Pressure: 30 to 70%Injection Velocity: 20 to 50% |                     |                   |             |
| NOTE                                                       |                     |                   |             |
| 1.                                                         | 50x70x3 mm          |                   |             |

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