

# Witcom POM-C 2C

Acetal (POM) Copolymer

Witcom Engineering Plastics B.V.

## Message:

Witcom POM-C 2C is an Acetal (POM) Copolymer product filled with 10% carbon fiber. It is available in Europe.

Characteristics include:

Flame Rated

Conductive

Copolymer

| General Information                               |                                   |                   |             |
|---------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Carbon Fiber,10% Filler by Weight |                   |             |
| Features                                          | Conductive                        |                   |             |
|                                                   | Copolymer                         |                   |             |
| Physical                                          | Nominal Value                     | Unit              | Test Method |
| Density                                           | 1.44                              | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow (3.00 mm)                | 0.50 to 0.90                      | %                 | ISO 2577    |
| Water Absorption                                  |                                   |                   | ISO 62      |
| Saturation, 23°C                                  | 0.80                              | %                 |             |
| Equilibrium, 23°C, 50% RH                         | 0.20                              | %                 |             |
| Mechanical                                        | Nominal Value                     | Unit              | Test Method |
| Tensile Stress (Yield)                            | < 85.0                            | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | 1.0 to 3.0                        | %                 | ISO 527-2   |
| Flexural Modulus                                  | 6000                              | MPa               | ISO 178     |
| Flexural Stress                                   | 110                               | MPa               | ISO 178     |
| Impact                                            | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact Strength                      | 4.8                               | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength                    | 20                                | kJ/m <sup>2</sup> | ISO 180/1U  |
| Thermal                                           | Nominal Value                     | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 160                               | °C                | ISO 75-2/A  |
| CLTE - Flow                                       | 4.0E-5                            | cm/cm/°C          | ISO 11359-2 |
| RTI Imp (3.00 mm)                                 | 95.0                              | °C                | UL 746      |
| Electrical                                        | Nominal Value                     | Unit              | Test Method |
| Surface Resistivity                               | 1.0E+3 to 1.0E+5                  | ohms              | ASTM D257   |
| Volume Resistivity                                | 1.0E+4 to 1.0E+6                  | ohms · cm         | ASTM D257   |
| Flammability                                      | Nominal Value                     | Unit              | Test Method |
| Flame Rating (3.00 mm)                            | HB                                |                   | ISO 1210    |

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