

# Witcom POM-C EC-E-ST

Acetal (POM) Copolymer

Witcom Engineering Plastics B.V.

Message:

Witcom POM-C EC-E-ST is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Impact modification

Conductivity

Copolymer

| General Information                               |                     |                   |                      |
|---------------------------------------------------|---------------------|-------------------|----------------------|
| Additive                                          | Impact modifier     |                   |                      |
| Features                                          | Impact modification |                   |                      |
|                                                   | Conductivity        |                   |                      |
|                                                   | Copolymer           |                   |                      |
| Processing Method                                 | Injection molding   |                   |                      |
| Physical                                          | Nominal Value       | Unit              | Test Method          |
| Density                                           | 1.40                | g/cm <sup>3</sup> | ISO 1183             |
| Molding Shrinkage - Flow (3.00 mm)                | 1.5 - 2.3           | %                 | ISO 2577             |
| Water Absorption                                  |                     |                   | ISO 62               |
| Saturated, 23°C                                   | 0.80                | %                 | ISO 62               |
| Equilibrium, 23°C, 50% RH                         | 0.20                | %                 | ISO 62               |
| Mechanical                                        | Nominal Value       | Unit              | Test Method          |
| Tensile Stress (Yield)                            | < 43.0              | MPa               | ISO 527-2            |
| Tensile Strain (Break)                            | > 25                | %                 | ISO 527-2            |
| Flexural Modulus                                  | 1800                | MPa               | ISO 178              |
| Flexural Stress                                   | 43.0                | MPa               | ISO 178              |
| Impact                                            | Nominal Value       | Unit              | Test Method          |
| Notched Izod Impact                               | 11                  | kJ/m <sup>2</sup> | ISO 180/1A           |
| Unnotched Izod Impact Strength                    | 130                 | kJ/m <sup>2</sup> | ISO 180/1U           |
| Thermal                                           | Nominal Value       | Unit              | Test Method          |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 105                 | °C                | ISO 75-2/A           |
| CLTE - Flow                                       | 1.1E-4              | cm/cm/°C          | ISO 11359-2          |
| RTI Imp (3.00 mm)                                 | 90.0                | °C                | UL 746               |
| Electrical                                        | Nominal Value       | Unit              | Test Method          |
| Surface Resistivity                               | 1.0E+2 - 1.0E+4     | ohms              | ASTM D257            |
| Flammability                                      | Nominal Value       | Unit              | Test Method          |
| Flammability Classification (3.00 mm)             | HB                  |                   | IEC 60695-11-10, -20 |
| Injection                                         | Nominal Value       | Unit              |                      |

|                        |              |     |
|------------------------|--------------|-----|
| Drying Temperature     | 80.0         | °C  |
| Drying Time            | 2.0 - 3.0    | hr  |
| Suggested Max Moisture | 0.050        | %   |
| Processing (Melt) Temp | 170 - 210    | °C  |
| Mold Temperature       | 50.0 - 120   | °C  |
| Injection Rate         | Fast         |     |
| Back Pressure          | 0.00 - 0.500 | MPa |

#### Injection instructions

Screw speed: 0.1 - 0.2 m/s Injection pressure: Keep to a minimum Hold pressure: Keep to a minimum

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