

# ALCOM® POM 770/1.1 CF20

Acetal (POM) Copolymer

ALBIS PLASTIC GmbH

## Message:

ALCOM® POM 770/1.1 CF20 is an Acetal (POM) Copolymer product filled with 20% carbon fiber. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® POM 770/1.1 CF20 include engineering/industrial parts and automotive. Characteristics include:

- REACH Compliant
- RoHS Compliant
- Conductive
- Copolymer
- High Stiffness

| General Information                               |                                   |                   |             |
|---------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Carbon Fiber,20% Filler by Weight |                   |             |
| Features                                          | Copolymer                         |                   |             |
|                                                   | Electrically Conductive           |                   |             |
|                                                   | High Stiffness                    |                   |             |
| Uses                                              | Automotive Applications           |                   |             |
|                                                   | Bearings                          |                   |             |
|                                                   | Machine/Mechanical Parts          |                   |             |
| Agency Ratings                                    | EC 1907/2006 (REACH)              |                   |             |
| RoHS Compliance                                   | RoHS Compliant                    |                   |             |
| Physical                                          | Nominal Value                     | Unit              | Test Method |
| Density                                           | 1.46                              | g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                                        | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                   | 12000                             | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | 0.80                              | %                 | ISO 527-2   |
| Flexural Modulus                                  | 11500                             | MPa               | ISO 178     |
| Flexural Stress                                   | 100                               | MPa               | ISO 178     |
| Impact                                            | Nominal Value                     | Unit              | Test Method |
| Charpy Notched Impact Strength                    | 3.0                               | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength                  | 12                                | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                           | Nominal Value                     | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 155                               | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       | 156                               | °C                | ISO 306/B50 |
| Electrical                                        | Nominal Value                     | Unit              | Test Method |
| Surface Resistivity                               | 2.0E+2                            | ohms              | IEC 60093   |
| Injection                                         | Nominal Value                     | Unit              |             |
| Drying Temperature                                |                                   |                   |             |

|                        |             |    |
|------------------------|-------------|----|
| Circulation Dryer      | 100 to 110  | °C |
| Desiccant Dryer        | 100 to 110  | °C |
| Drying Time            |             |    |
| Circulation Dryer      | 3.0 to 5.0  | hr |
| Desiccant Dryer        | 2.0 to 3.0  | hr |
| Processing (Melt) Temp | 190 to 230  | °C |
| Mold Temperature       | 60.0 to 120 | °C |

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