

# Witcom PA6 6G+MC

Polyamide 6

Witcom Engineering Plastics B.V.

## Message:

Witcom PA6 6G + MC is a polyamide 6 (nylon 6) product, which contains 30% glass and carbon fiber reinforced materials. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

| General Information                               |                                                                   |                   |                |
|---------------------------------------------------|-------------------------------------------------------------------|-------------------|----------------|
| Filler / Reinforcement                            | Glass and carbon fiber reinforced materials, 30% filler by weight |                   |                |
| Features                                          | Conductivity                                                      |                   |                |
| Processing Method                                 | Injection molding                                                 |                   |                |
| Physical                                          | Nominal Value                                                     | Unit              | Test Method    |
| Density                                           | 1.32                                                              | g/cm <sup>3</sup> | ISO 1183       |
| Molding Shrinkage - Flow (3.00 mm)                | 0.20 - 0.40                                                       | %                 | ISO 2577       |
| Water Absorption                                  |                                                                   |                   | ISO 62         |
| Saturated, 23°C                                   | 6.5                                                               | %                 | ISO 62         |
| Equilibrium, 23°C, 50% RH                         | 2.1                                                               | %                 | ISO 62         |
| Mechanical                                        | Nominal Value                                                     | Unit              | Test Method    |
| Tensile Stress (Break)                            | 145                                                               | MPa               | ISO 527-2      |
| Tensile Strain (Break)                            | 2.0 - 4.0                                                         | %                 | ISO 527-2      |
| Flexural Modulus                                  | 11000                                                             | MPa               | ISO 178        |
| Flexural Stress                                   | 225                                                               | MPa               | ISO 178        |
| Impact                                            | Nominal Value                                                     | Unit              | Test Method    |
| Notched Izod Impact                               | 8.0                                                               | kJ/m <sup>2</sup> | ISO 180/1A     |
| Unnotched Izod Impact Strength                    | 70                                                                | kJ/m <sup>2</sup> | ISO 180/1U     |
| Thermal                                           | Nominal Value                                                     | Unit              | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 200                                                               | °C                | ISO 75-2/A     |
| CLTE - Flow                                       | 2.9E-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+4 - 1.0E+6                                                   | ohms              | ASTM D257      |
| Flammability                                      | Nominal Value                                                     | Unit              | Test Method    |
| Flame Rating (3.00 mm)                            | HB                                                                |                   | ISO 1210       |
| Glow Wire Flammability Index (1.60 mm)            | 750                                                               | °C                | IEC 60695-2-12 |
| Injection                                         | Nominal Value                                                     | Unit              |                |
| Drying Temperature                                | 80.0                                                              | °C                |                |
| Drying Time                                       | 3.0 - 5.0                                                         | hr                |                |
| Suggested Max Moisture                            | 0.10                                                              | %                 |                |

|                        |             |     |
|------------------------|-------------|-----|
| Processing (Melt) Temp | 250 - 270   | °C  |
| Mold Temperature       | 40.0 - 80.0 | °C  |
| Injection Rate         | Fast        |     |
| Back Pressure          | 0.00 - 1.00 | MPa |

Injection instructions

Screw speed: 0.1 to 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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

