

# Witcom PA6 2011/200

Polyamide 6

Witcom Engineering Plastics B.V.

## Message:

Witcom PA6 2011/200 is a polyamide 6 (nylon 6) product that contains a filler. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

| General Information                               |                   |                   |                |
|---------------------------------------------------|-------------------|-------------------|----------------|
| Filler / Reinforcement                            | Filler            |                   |                |
| Features                                          | Heat conduction   |                   |                |
| Processing Method                                 | Injection molding |                   |                |
| Physical                                          | Nominal Value     | Unit              | Test Method    |
| Density                                           | 2.27              | g/cm <sup>3</sup> | ISO 1183       |
| Molding Shrinkage - Flow (3.00 mm)                | 0.40 - 0.70       | %                 | ISO 2577       |
| Water Absorption                                  |                   |                   | ISO 62         |
| Saturated, 23°C                                   | 2.4               | %                 | ISO 62         |
| Equilibrium, 23°C, 50% RH                         | 0.80              | %                 | ISO 62         |
| Mechanical                                        | Nominal Value     | Unit              | Test Method    |
| Tensile Stress (Yield)                            | < 80.0            | MPa               | ISO 527-2      |
| Tensile Strain (Break)                            | 0.50 - 1.5        | %                 | ISO 527-2      |
| Flexural Modulus                                  | 14000             | MPa               | ISO 178        |
| Flexural Stress                                   | 115               | MPa               | ISO 178        |
| Impact                                            | Nominal Value     | Unit              | Test Method    |
| Notched Izod Impact                               | 4.5               | 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) | 195               | °C                | ISO 75-2/A     |
| Thermal Conductivity <sup>1</sup>                 | 1.6               | W/m/K             | ASTM E1530     |
| RTI Imp (3.00 mm)                                 | 95.0              | °C                | UL 746         |
| Electrical                                        | Nominal Value     | Unit              | Test Method    |
| Surface Resistivity                               | 1.0E+12           | 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 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

NOTE

1. through plane

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