

# SAXAMID™ 226F5

Polyamide 66

SAX Polymers

Message:

SAXAMID 226F5 is a general purpose polyamide 6.6 injection-molding-grade reinforced with 25 % glass fibres. This grade has high mechanical strength in combination with good flow properties.

| General Information                                                          |                                  |                    |             |
|------------------------------------------------------------------------------|----------------------------------|--------------------|-------------|
| Filler / Reinforcement                                                       | Glass Fiber,25% Filler by Weight |                    |             |
| Features                                                                     | General Purpose                  |                    |             |
|                                                                              | Good Flow                        |                    |             |
|                                                                              | High Strength                    |                    |             |
| Uses                                                                         | General Purpose                  |                    |             |
| RoHS Compliance                                                              | RoHS Compliant                   |                    |             |
| Processing Method                                                            | Injection Molding                |                    |             |
| Physical                                                                     | Nominal Value                    | Unit               | Test Method |
| Density                                                                      | 1.30                             | g/cm <sup>3</sup>  | ISO 1183    |
| Viscosity Number (H2SO4 (Sulphuric Acid))                                    | 150                              | cm <sup>3</sup> /g | ISO 307     |
| Mechanical                                                                   | Nominal Value                    | Unit               | Test Method |
| Tensile Modulus                                                              | 8600                             | MPa                | ISO 527-2/1 |
| Tensile Stress (Break)                                                       | 175                              | MPa                | ISO 527-2/5 |
| Tensile Strain (Break)                                                       | 3.0                              | %                  | ISO 527-2/5 |
| Flexural Modulus <sup>1</sup>                                                | 7000                             | MPa                | ISO 178     |
| Flexural Stress <sup>2</sup>                                                 | 250                              | MPa                | ISO 178     |
| Impact                                                                       | Nominal Value                    | Unit               | Test Method |
| Charpy Notched Impact Strength                                               |                                  |                    | ISO 179/1eA |
| -30°C                                                                        | 11                               | kJ/m <sup>2</sup>  |             |
| 23°C                                                                         | 12                               | kJ/m <sup>2</sup>  |             |
| Charpy Unnotched Impact Strength                                             |                                  |                    | ISO 179/1eU |
| -30°C                                                                        | 55                               | kJ/m <sup>2</sup>  |             |
| 23°C                                                                         | 65                               | kJ/m <sup>2</sup>  |             |
| Notched Izod Impact Strength                                                 |                                  |                    | ISO 180/1A  |
| -30°C                                                                        | 11                               | kJ/m <sup>2</sup>  |             |
| 23°C                                                                         | 13                               | kJ/m <sup>2</sup>  |             |
| Unnotched Izod Impact Strength                                               |                                  |                    | ISO 180/1U  |
| -30°C                                                                        | 47                               | kJ/m <sup>2</sup>  |             |
| 23°C                                                                         | 55                               | kJ/m <sup>2</sup>  |             |
| Thermal                                                                      | Nominal Value                    | Unit               | Test Method |
| Heat Deflection Temperature <sup>3</sup> (1.8 MPa, Unannealed, 60.0 mm Span) | 245                              | °C                 | ISO 75-2/A  |

| Vicat Softening Temperature | 250           | °C   | ISO 306/B120 |
|-----------------------------|---------------|------|--------------|
| Injection                   | Nominal Value | Unit |              |
| Drying Temperature          | 80.0          | °C   |              |
| Drying Time                 | 2.0 to 6.0    | hr   |              |
| Suggested Max Moisture      | 0.20          | %    |              |
| Processing (Melt) Temp      | 280 to 300    | °C   |              |
| Mold Temperature            | 70.0 to 90.0  | °C   |              |
| NOTE                        |               |      |              |
| 1.                          | 2.0 mm/min    |      |              |
| 2.                          | 2.0 mm/min    |      |              |
| 3.                          | 80*10*4mm     |      |              |

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