

# SAXALAC™ 108GF17

Acrylonitrile Butadiene Styrene

SAX Polymers

Message:

Saxalac 108 GF17 is a 17% glasfibres reinforced ABS injection molding grade, characterized by high impact strength, high stiffness and good resistance to heat distortion.

| General Information                                                          |                                  |           |                 |
|------------------------------------------------------------------------------|----------------------------------|-----------|-----------------|
| Filler / Reinforcement                                                       | Glass Fiber,17% Filler by Weight |           |                 |
| Features                                                                     | High Impact Resistance           |           |                 |
|                                                                              | High Stiffness                   |           |                 |
| RoHS Compliance                                                              | RoHS Compliant                   |           |                 |
| Processing Method                                                            | Injection Molding                |           |                 |
| Physical                                                                     | Nominal Value                    | Unit      | Test Method     |
| Density                                                                      | 1.17                             | g/cm³     | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)                                  | 8.00                             | cm³/10min | ISO 1133        |
| Molding Shrinkage                                                            | 0.30 to 0.60                     | %         | ISO 294-4       |
| Moisture Content <sup>1</sup>                                                | < 0.20                           | %         | Internal Method |
| Mechanical                                                                   | Nominal Value                    | Unit      | Test Method     |
| Tensile Modulus (23°C)                                                       | 6300                             | MPa       | ISO 527-2       |
| Tensile Stress (Break, 23°C)                                                 | 90.0                             | MPa       | ISO 527-2       |
| Tensile Strain (Break, 23°C)                                                 | 2.0                              | %         | ISO 527-2       |
| Impact                                                                       | Nominal Value                    | Unit      | Test Method     |
| Charpy Notched Impact Strength                                               |                                  |           | ISO 179/1eA     |
| -30°C                                                                        | 5.0                              | kJ/m²     |                 |
| 23°C                                                                         | 7.0                              | kJ/m²     |                 |
| Charpy Unnotched Impact Strength                                             |                                  |           | ISO 179/1eU     |
| -30°C                                                                        | 14                               | kJ/m²     |                 |
| 23°C                                                                         | 17                               | kJ/m²     |                 |
| Notched Izod Impact Strength                                                 |                                  |           | ISO 180/1A      |
| -30°C                                                                        | 5.0                              | kJ/m²     |                 |
| 23°C                                                                         | 7.0                              | kJ/m²     |                 |
| Unnotched Izod Impact Strength                                               |                                  |           | ISO 180         |
| -30°C                                                                        | 15                               | kJ/m²     |                 |
| 23°C                                                                         | 18                               | kJ/m²     |                 |
| Thermal                                                                      | Nominal Value                    | Unit      | Test Method     |
| Heat Deflection Temperature <sup>2</sup> (1.8 MPa, Unannealed, 60.0 mm Span) | 97.0                             | °C        | ISO 75-2/A      |
| Vicat Softening Temperature                                                  | 104                              | °C        | ISO 306/B50     |

| Ball Pressure Test (98°C, 2.00 mm) | Pass          |      | IEC 60335-1    |
|------------------------------------|---------------|------|----------------|
| Flammability                       | Nominal Value | Unit | Test Method    |
| Glow Wire Flammability Index       | 750           | °C   | IEC 60695-2-12 |
| Injection                          | Nominal Value | Unit |                |
| Drying Temperature                 | 80.0          | °C   |                |
| Drying Time                        | 2.0 to 4.0    | hr   |                |
| Processing (Melt) Temp             | 220 to 260    | °C   |                |
| Mold Temperature                   | 60.0 to 90.0  | °C   |                |
| NOTE                               |               |      |                |
| 1.                                 | B130          |      |                |
| 2.                                 | 80x10x4 mm    |      |                |

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