

# SAXALAC™ 310A

Acrylonitrile Butadiene Styrene

SAX Polymers

Message:

Saxalac 310A is a medium viscosity, impact resistant ABS injection molding grade, characterized by good processability and high stiffness.

| General Information                                                          |                        |                        |                 |
|------------------------------------------------------------------------------|------------------------|------------------------|-----------------|
| Features                                                                     | Good Impact Resistance |                        |                 |
|                                                                              | Good Processability    |                        |                 |
|                                                                              | High Stiffness         |                        |                 |
|                                                                              | Medium Viscosity       |                        |                 |
| RoHS Compliance                                                              | RoHS Compliant         |                        |                 |
| Processing Method                                                            | Injection Molding      |                        |                 |
| Physical                                                                     | Nominal Value          | Unit                   | Test Method     |
| Density                                                                      | 1.02                   | g/cm <sup>3</sup>      | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)                                  | 10.0                   | cm <sup>3</sup> /10min | ISO 1133        |
| Molding Shrinkage                                                            | 0.40 to 0.70           | %                      | ISO 294-4       |
| Moisture Content <sup>1</sup>                                                | < 0.20                 | %                      | Internal Method |
| Mechanical                                                                   | Nominal Value          | Unit                   | Test Method     |
| Tensile Modulus (23°C)                                                       | 2500                   | MPa                    | ISO 527-2       |
| Tensile Stress (Break, 23°C)                                                 | 50.0                   | MPa                    | ISO 527-2       |
| Tensile Strain (Break, 23°C)                                                 | 10                     | %                      | ISO 527-2       |
| Impact                                                                       | Nominal Value          | Unit                   | Test Method     |
| Charpy Notched Impact Strength                                               |                        |                        | ISO 179/1eA     |
| -30°C                                                                        | 10                     | kJ/m <sup>2</sup>      |                 |
| 23°C                                                                         | 25                     | kJ/m <sup>2</sup>      |                 |
| Charpy Unnotched Impact Strength                                             |                        |                        | ISO 179/1eU     |
| -30°C                                                                        | 92                     | kJ/m <sup>2</sup>      |                 |
| 23°C                                                                         | 100                    | kJ/m <sup>2</sup>      |                 |
| Notched Izod Impact Strength                                                 |                        |                        | ISO 180/1A      |
| -30°C                                                                        | 10                     | kJ/m <sup>2</sup>      |                 |
| 23°C                                                                         | 25                     | kJ/m <sup>2</sup>      |                 |
| Unnotched Izod Impact Strength                                               |                        |                        | ISO 180         |
| -30°C                                                                        | 90                     | kJ/m <sup>2</sup>      |                 |
| 23°C                                                                         | 100                    | kJ/m <sup>2</sup>      |                 |
| Thermal                                                                      | Nominal Value          | Unit                   | Test Method     |
| Heat Deflection Temperature <sup>2</sup> (1.8 MPa, Unannealed, 60.0 mm Span) | 84.0                   | °C                     | ISO 75-2/A      |
| Vicat Softening Temperature                                                  | 98.0                   | °C                     | ISO 306/B50     |

| Ball Pressure Test (95°C, 2.00 mm) | Pass          |      | IEC 60335-1    |
|------------------------------------|---------------|------|----------------|
| Flammability                       | Nominal Value | Unit | Test Method    |
| Glow Wire Flammability Index       | 650           | °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.                                 | 80*10*4mm     |      |                |

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