

# Esterlloy™ AT900

Acrylonitrile Butadiene Styrene Alloy

Asahi Kasei Chemicals Corporation

## Message:

Esterlloy™ AT900 is an Acrylonitrile Butadiene Styrene Alloy (ABS Alloy) product. It is available in Africa & Middle East, Asia Pacific, or Europe. Typical application: Electrical/Electronic Applications. Primary characteristic: scratch resistant.

| General Information                               |                                    |                        |              |
|---------------------------------------------------|------------------------------------|------------------------|--------------|
| UL YellowCard                                     | E171626-630630                     |                        |              |
| Features                                          | Good Colorability                  |                        |              |
|                                                   | High Scratch Resistance            |                        |              |
| Uses                                              | Electrical/Electronic Applications |                        |              |
| Physical                                          | Nominal Value                      | Unit                   | Test Method  |
| Density (23°C)                                    | 1.14                               | g/cm <sup>3</sup>      | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)         | 12                                 | g/10 min               | ISO 1133     |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)       | 12.5                               | cm <sup>3</sup> /10min | ISO 1133     |
| Hardness                                          | Nominal Value                      | Unit                   | Test Method  |
| Rockwell Hardness (R-Scale, 2.50 mm)              | 118                                |                        |              |
| Mechanical                                        | Nominal Value                      | Unit                   | Test Method  |
| Tensile Stress (Yield)                            | 64.1                               | MPa                    | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                     | 2950                               | MPa                    | ISO 178      |
| Flexural Stress <sup>2</sup>                      | 98.6                               | MPa                    | ISO 178      |
| Impact                                            | Nominal Value                      | Unit                   | Test Method  |
| Charpy Notched Impact Strength (23°C)             | 3.0                                | kJ/m <sup>2</sup>      | ISO 179      |
| Thermal                                           | Nominal Value                      | Unit                   | Test Method  |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 80.9                               | °C                     | ISO 75-2/A   |
| Vicat Softening Temperature                       | 104                                | °C                     | ISO 306/B    |
| NOTE                                              |                                    |                        |              |
| 1.                                                | 2.0 mm/min                         |                        |              |
| 2.                                                | 2.0 mm/min                         |                        |              |

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