

# Cawiton® SN910

Styrene Ethylene Butylene Styrene Block Copolymer

Wittenburg B.V.

## Message:

Cawiton SN910 is a Styrene Ethylene Butylene Styrene Block Copolymer (SEBS) material. It is available in Europe for injection molding. Primary attribute of Cawiton SN910: Copolymer.

| General Information                       |                   |                   |             |
|-------------------------------------------|-------------------|-------------------|-------------|
| Features                                  | Block Copolymer   |                   |             |
| Appearance                                | Opaque            |                   |             |
| Forms                                     | Pellets           |                   |             |
| Processing Method                         | Injection Molding |                   |             |
| Physical                                  | Nominal Value     | Unit              | Test Method |
| Density                                   | 1.17              | g/cm <sup>3</sup> | ISO 2781    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 61                | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value     | Unit              | Test Method |
| Shore Hardness (Shore A)                  | 10                |                   | ISO 868     |
| Elastomers                                | Nominal Value     | Unit              | Test Method |
| Tensile Stress                            |                   |                   | ISO 37      |
| Across Flow : 100% Strain                 | 0.400             | MPa               |             |
| Flow : 100% Strain                        | 0.600             | MPa               |             |
| Across Flow : 200% Strain                 | 0.600             | MPa               |             |
| Flow : 200% Strain                        | 0.700             | MPa               |             |
| Across Flow : 300% Strain                 | 0.900             | MPa               |             |
| Flow : 300% Strain                        | 0.900             | MPa               |             |
| Tensile Stress                            |                   |                   | ISO 37      |
| Across Flow : Yield                       | 3.50              | MPa               |             |
| Flow : Yield                              | 1.20              | MPa               |             |
| Tensile Elongation                        |                   |                   | ISO 37      |
| Across Flow : Break                       | 940               | %                 |             |
| Flow : Break                              | 780               | %                 |             |
| Tear Strength                             |                   |                   | ISO 34-1    |
| Across Flow                               | 15                | kN/m              |             |
| Flow                                      | 11                | kN/m              |             |
| Compression Set (70°C, 22 hr)             | 28                | %                 | ISO 815     |
| Thermal                                   | Nominal Value     | Unit              | Test Method |
| Melting Temperature (DSC) <sup>1</sup>    | 166               | °C                | DSC         |
| Injection                                 | Nominal Value     | Unit              |             |
| Hopper Temperature                        | 30.0 to 60.0      | °C                |             |
| Rear Temperature                          | 160 to 200        | °C                |             |

|                        |              |    |
|------------------------|--------------|----|
| Middle Temperature     | 170 to 210   | °C |
| Front Temperature      | 170 to 210   | °C |
| Nozzle Temperature     | 180 to 220   | °C |
| Processing (Melt) Temp | 160 to 220   | °C |
| Mold Temperature       | 20.0 to 40.0 | °C |

NOTE

1.
- Measured with a differential scanning calorimeter

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