

# Evoprene™ G 992

Styrene Ethylene Butylene Styrene Block Copolymer

AlphaGary

## Message:

A very wide range of Evoprene™ G compounds is available for applications in all sectors of industry. The range is based on the widely specified SEBS (styrene - ethylene butylene - styrene) and related hydrogenated block copolymers. These polymers are fully saturated, i.e. there are no double bonds present so the resistance to oxidation, ozone and general outdoor weathering is excellent. For extended outdoor use, however, it is important to ensure additional UV stabilization is specified, especially in light colours. Evoprene™ G grades are used in service over a wide temperature range (see notes below) but each component should be fully assessed for temperature resistance before being put into service.

| General Information          |                                      |                   |             |
|------------------------------|--------------------------------------|-------------------|-------------|
| Features                     | Block Copolymer                      |                   |             |
|                              | Food Contact Acceptable              |                   |             |
|                              | Good Colorability                    |                   |             |
|                              | Good Electrical Properties           |                   |             |
|                              | Good Processability                  |                   |             |
|                              | Good Weather Resistance              |                   |             |
|                              | Oxidation Resistant                  |                   |             |
|                              | Ozone Resistant                      |                   |             |
|                              | Recyclable Material                  |                   |             |
| Uses                         | Outdoor Applications                 |                   |             |
| Agency Ratings               | EU Food Contact, Unspecified Rating  |                   |             |
|                              | FDA Food Contact, Unspecified Rating |                   |             |
| RoHS Compliance              | Contact Manufacturer                 |                   |             |
| Appearance                   | Opaque                               |                   |             |
| Forms                        | Pellets                              |                   |             |
| Processing Method            | Coextrusion                          |                   |             |
|                              | Injection Molding                    |                   |             |
| Physical                     | Nominal Value                        | Unit              | Test Method |
| Density                      | 1.20                                 | g/cm <sup>3</sup> | ISO 2782    |
| Hardness                     | Nominal Value                        | Unit              | Test Method |
| Shore Hardness (Shore A)     | 43                                   |                   | ISO 868     |
| Elastomers                   | Nominal Value                        | Unit              | Test Method |
| Tensile Stress (100% Strain) | 1.00                                 | MPa               | ISO 37      |
| Tensile Stress (Yield)       | 5.00                                 | MPa               | ISO 37      |
| Tensile Elongation (Break)   | 610                                  | %                 | ISO 37      |
| Tear Strength <sup>1</sup>   | 20                                   | kN/m              | ISO 34-1    |
| Compression Set              |                                      |                   | ISO 815     |

| 22°C, 72 hr            | 27             | %       |                 |
|------------------------|----------------|---------|-----------------|
| 70°C, 22 hr            | 36             | %       |                 |
| 100°C, 22 hr           | 61             | %       |                 |
| Electrical             | Nominal Value  | Unit    |                 |
| Volume Resistivity     | 1.0E+15        | ohms·cm |                 |
| Electric Strength      | 24 to 28       | kV/mm   |                 |
| Additional Information | Nominal Value  | Unit    | Test Method     |
| M-S Flow               | 1.57           | MPa     | Internal Method |
| Injection              | Nominal Value  | Unit    |                 |
| Suggested Max Regrind  | 20             | %       |                 |
| Rear Temperature       | 170 to 190     | °C      |                 |
| Middle Temperature     | 170 to 190     | °C      |                 |
| Front Temperature      | 170 to 190     | °C      |                 |
| Nozzle Temperature     | 170 to 190     | °C      |                 |
| Processing (Melt) Temp | 250            | °C      |                 |
| Mold Temperature       | 30.0 to 60.0   | °C      |                 |
| Injection Rate         | Fast           |         |                 |
| Vent Depth             | 0.020 to 0.050 | mm      |                 |
| NOTE                   |                |         |                 |

1. Method Ba, Angle (Unnicked)

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