# Evoprene™ GC 641

Styrene Ethylene Butylene Styrene Block Copolymer

AlphaGary

## Message:

The Evoprene™ GC series was created to provide cost effective solutions for processors and end users alike. If temperature resistance, weatherability and processing performance are paramount then it is best to choose an Evoprene™ Super G, HP or Evoprene™ G grade. But if a reduction in temperature resistance can be tolerated and cost is important, the Evoprene™ GC range provides an excellent choice. Low Temperature performance is maintained at a high level with flexibility retained to -50 to -60° C depending on grade. In addition, all grades have excellent ozone resistance, and electrical resistance is in line with other Evoprene™ G compounds. Weatherability can be improved by the selection of appropriate stabiliser systems and special grades can be formulated to give superior UV resistance.

| General Information | |
|---|---|
| Features | Block Copolymer |
| | Bondability |
| | Food Contact Acceptable |
| | Good Colorability |
| | Good Flexibility |
| | Good Processability |
| | Ozone Resistant |
| Agency Ratings | EU Food Contact, Unspecified Rating |
| | FDA Food Contact, Unspecified Rating |
| RoHS Compliance | Contact Manufacturer |
| Appearance | Opaque |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.10 | g/cm³ | ISO 2782 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness (Shore A) | 76 | | ISO 868 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (100% Strain) | 3.90 | MPa | ISO 37 |
| Tensile Stress (Yield) | 6.00 | MPa | ISO 37 |
| Tensile Elongation (Break) | 590 | % | ISO 37 |
| Tear Strength [1] | 42 | kN/m | ISO 34-1 |
| Compression Set (70°C, 22 hr) | 50 | % | ISO 815 |
| **Additional Information** | **Nominal Value** | **Unit** | **Test Method** |
| M-S Flow | 2.06 | 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 | 240 | °C |
| Mold Temperature | 20.0 to 40.0 | °C |
| Injection Rate | Moderate-Fast | |
| Vent Depth | 0.020 to 0.050 | mm |

| NOTE | |
|---|---|
| 1. | Method Ba, Angle (Unnicked) |



## Recommended distributors for this material

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