# G100.A21.B

## PRODUCT DESCRIPTION

A soft , black SEBS based thermoplastic elastomer (TPE) compound that offers good physical properties and chemical resistance.

## GENERAL PROPERTIES

| | |
|---|---|
| **Material Status** | Active |
| **Availability** | Europe<br>North America<br>Asia- Pasific<br>Africa & Middle East |
| **Features** | Good Mechanical Properties<br>Good Chemical Resistance<br>Ozone Resistance<br>Adhesion to Polyolefins<br>Compliant with RoHS Directive 2011/65/EU |
| **Certification** | RoHS |
| **Appearance** | Black |
| **Form** | Pellets |
| **Processing Method** | Injection |

## Physical Properties

| Property | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| **Density** | 1.16 g/cm³ | 1,16 g/cm³ | ASTM D 792 |
| **Durometer Hardness, 3 sec (Shore A)** | 20.00 | 20,00 | ASTM D 2240 |
| **Tensile Strength at Break** | 290 Psi | 2,00 MPa | ASTM D412, Method A |
| **Mod.of Elasticity %100** | 58 Psi | 0,40 MPa | ASTM D412, Method A |
| **Mod.of Elasticity %300** | 145 Psi | 1,00 MPa | ASTM D412, Method A |
| **Elongation at break** | 800.00 % | 800,00 % | ASTM D412, Method A |
| **Compression Set (at 73 °F, 22 h)** | 10.00 % | 10,00 % | ASTM D 395, Type 2, Method B |
| **Compression Set (at 158 °F, 22 h)** | 40.00 % | 40,00 % | ASTM D 395, Type 2, Method B |
| **Compression Set (at 212 °F, 22 h)** | 69.00 % | 69,00 % | ASTM D 395, Type 2, Method B |
| **Tear Resistance** | 68.52 lbf/in | 12,00 N/mm | ASTM D624 |

## Shrinkage

| Property | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| **Flow** | 2.20% | 2.20% | ASTM D955 |
| **Across Flow** | 1.70% | 1.70% | ASTM D955 |

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## Ageing Tests

| Additional Information | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| **Ozone Resistance-Stressed** | No cracks | No cracks | ASTM D 1149 |

## Bondable to

PE-PP-EVA

## Additional Information

Elastron products are not compatible with PVC and Acetal.
Regrinding level up to %20 is recommended with minimum property loss.

## Processing

| Injection Molding | Typical Value (English) | | Typical Value (SI) | |
|---|---|---|---|---|
| **Drying temperatures** | - | °F | - | °C |
| **Drying time** | No need | hours | No need | hours |
| **Rear Zone temp.** | 293-347 | °F | 145- 175 | °C |
| **Middle Zone temp.** | 311-365 | °F | 155- 185 | °C |
| **Front Zone temp.** | 320-374 | °F | 160- 190 | °C |
| **Nozzle Temperature** | 347-401 | °F | 175- 205 | °C |
| **Injection Speed** | Low/ Mod | - | Low/ Mod | - |
| **Injection Time** | 3- 5 | sec. | 3- 5 | sec. |
| **Injection Pressure** | 10- 40 | bar | 10- 40 | bar |
| **Hold Pressure** | 5- 20 | bar | 5- 20 | bar |
| **Back Pressure** | 5- 40 | bar | 5- 40 | bar |
| **Screw Speed** | 50- 200 | rpm | 50- 200 | rpm |
| **Mold Temperature** | 77-122 | °F | 25- 50 | °C |
| **Screw Comp. ratio** | 1.5:1- 2.0:1 | - | 1.5:1- 2.0:1 | - |
| **Screw L/D ratio** | 18- 24 | - | 18- 24 | - |
| **Residence time** | 1-2 shot | - | 1-2 shot | - |
| **Cushion size** | 0.3120 | inc | 8 | mm |
| **Suggested Max Regrind** | 20 | % | 20 | % |

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