

# Elastron® G P.G101.A45.B

Styrene Ethylene Butylene Styrene Block Copolymer

Elastron USA, Inc.

Message:

A soft, black SEBS based thermoplastic elastomer (TPE) compound designed for use in medical applications.  
Bondable to: PP, EVA, PE

| General Information |                                 |  |  |
|---------------------|---------------------------------|--|--|
| Features            | Block Copolymer                 |  |  |
|                     | Bondability                     |  |  |
|                     | Soft                            |  |  |
| Uses                | Medical/Healthcare Applications |  |  |
| RoHS Compliance     | RoHS Compliant                  |  |  |
| Appearance          | Black                           |  |  |
| Forms               | Pellets                         |  |  |
| Processing Method   | Extrusion                       |  |  |
|                     | Injection Molding               |  |  |

| Physical          | Nominal Value | Unit              | Test Method |
|-------------------|---------------|-------------------|-------------|
| Specific Gravity  | 1.17          | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage |               |                   | ASTM D955   |
| Flow              | 2.2           | %                 |             |
| Across Flow       | 2.2           | %                 |             |

| Hardness                     | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Durometer Hardness (Shore A) | 45            |      | ASTM D2240  |

| Elastomers                 | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Tensile Stress             |               |      | ASTM D412   |
| 100% Strain                | 1.10          | MPa  |             |
| 300% Strain                | 2.10          | MPa  |             |
| Tensile Strength (Break)   | 4.00          | MPa  | ASTM D412   |
| Tensile Elongation (Break) | 800           | %    | ASTM D412   |
| Tear Strength              | 22.0          | kN/m | ASTM D624   |
| Compression Set            |               |      | ASTM D395   |
| 23°C, 22 hr                | 14            | %    |             |
| 70°C, 22 hr                | 48            | %    |             |
| 100°C, 22 hr               | 65            | %    |             |

| Additional Information      | Nominal Value | Test Method |
|-----------------------------|---------------|-------------|
| Ozone Resistance - Stressed | No Cracks     | ASTM D518   |

| Injection | Nominal Value | Unit |
|-----------|---------------|------|
|-----------|---------------|------|

|                       |               |      |
|-----------------------|---------------|------|
| Suggested Max Regrind | 20            | %    |
| Rear Temperature      | 145 to 175    | °C   |
| Middle Temperature    | 155 to 185    | °C   |
| Front Temperature     | 160 to 190    | °C   |
| Nozzle Temperature    | 175 to 205    | °C   |
| Mold Temperature      | 25.0 to 50.0  | °C   |
| Extrusion             | Nominal Value | Unit |
| Cylinder Zone 1 Temp. | 150 to 170    | °C   |
| Cylinder Zone 2 Temp. | 155 to 175    | °C   |
| Cylinder Zone 3 Temp. | 165 to 185    | °C   |
| Cylinder Zone 4 Temp. | 175 to 205    | °C   |
| Cylinder Zone 5 Temp. | 180 to 210    | °C   |
| Die Temperature       | 190 to 210    | °C   |

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