

# Elastron® G G400.A12.B

Styrene Ethylene Butylene Styrene Block Copolymer

Elastron USA, Inc.

## Message:

A soft, black unfilled SEBS based thermoplastic elastomer (TPE) compound which has very good physical properties and chemical resistance. This product is a good option when good scratch and abrasion resistance is required.

Bondable to: PP, EVA, PE

| General Information          |   |                   |             |
|------------------------------|---|-------------------|-------------|
| Features                     | Block Copolymer<br>Bondability<br>Good Abrasion Resistance<br>Good Chemical Resistance<br>Scratch Resistant<br>Soft |                   |             |
| RoHS Compliance              | RoHS Compliant  |                   |             |
| Appearance                   | Black   |                   |             |
| Forms                        | Pellets   |                   |             |
| Processing Method            | Injection Molding   |                   |             |
| Physical                     | Nominal Value   | Unit              | Test Method |
| Specific Gravity             | 0.870   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage            |   |                   | ASTM D955   |
| Flow                         | 5.3   | %                 |             |
| Across Flow                  | 2.0   | %                 |             |
| Hardness                     | Nominal Value   | Unit              | Test Method |
| Durometer Hardness (Shore A) | 12  |                   | ASTM D2240  |
| Elastomers                   | Nominal Value   | Unit              | Test Method |
| Tensile Stress               |   |                   | ASTM D412   |
| 100% Strain                  | 0.800   | MPa               |             |
| 300% Strain                  | 1.70  | MPa               |             |
| Tensile Strength (Break)     | 2.80  | MPa               | ASTM D412   |
| Tensile Elongation (Break)   | 1200  | %                 | ASTM D412   |
| Tear Strength                | 9.00  | kN/m              | ASTM D624   |
| Compression Set              |   |                   | ASTM D395   |
| 23°C, 22 hr                  | 8.0   | %                 |             |
| 70°C, 22 hr                  | 28  | %                 |             |
| 100°C, 22 hr                 | 63  | %                 |             |
| Flammability                 | Nominal Value   |                   | Test Method |
| Flame Rating                 | HB  |                   | UL 94       |
| 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        |

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