

# Elastron® D D100.A72.N

Styrene Butadiene Styrene Block Copolymer

Elastron USA, Inc.

Message:

A soft, colorable SBS based thermoplastic elastomer (TPE) compound designed for injection molding applications.

Bondable to: PP, EVA, PE

| General Information           |                   |                   |             |
|-------------------------------|-------------------|-------------------|-------------|
| Features                      | Block Copolymer   |                   |             |
|                               | Bondability       |                   |             |
|                               | Good Colorability |                   |             |
|                               | Soft              |                   |             |
| RoHS Compliance               | RoHS Compliant    |                   |             |
| Appearance                    | Natural Color     |                   |             |
| Forms                         | Pellets           |                   |             |
| Processing Method             | Injection Molding |                   |             |
| Physical                      | Nominal Value     | Unit              | Test Method |
| Specific Gravity              | 1.09              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage             |                   |                   | ASTM D955   |
| Flow                          | 3.0               | %                 |             |
| Across Flow                   | 1.5               | %                 |             |
| Hardness                      | Nominal Value     | Unit              | Test Method |
| Durometer Hardness (Shore A)  | 72                |                   | ASTM D2240  |
| Elastomers                    | Nominal Value     | Unit              | Test Method |
| Tensile Stress                |                   |                   | ASTM D412   |
| 100% Strain                   | 2.40              | MPa               |             |
| 300% Strain                   | 3.10              | MPa               |             |
| Tensile Strength (Break)      | 3.50              | MPa               | ASTM D412   |
| Tensile Elongation (Break)    | 450               | %                 | ASTM D412   |
| Tear Strength                 | 23.0              | kN/m              | ASTM D624   |
| Compression Set (23°C, 22 hr) | 25                | %                 | ASTM D395   |
| Injection                     | Nominal Value     | Unit              |             |
| Suggested Max Regrind         | 20                | %                 |             |
| Rear Temperature              | 140 to 160        | °C                |             |
| Middle Temperature            | 145 to 165        | °C                |             |
| Front Temperature             | 155 to 175        | °C                |             |
| Nozzle Temperature            | 155 to 185        | °C                |             |
| Mold Temperature              | 25.0 to 50.0      | °C                |             |

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