

# Elastron® V P.V101.A30.B

Thermoplastic Vulcanizate

Elastron USA, Inc.

Message:

A soft, black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer family designed for use in medical applications.

Bondable to: PP, EVA, PE

| General Information          |                                 |                   |             |
|------------------------------|---------------------------------|-------------------|-------------|
| Features                     | Bondability                     |                   |             |
|                              | Soft                            |                   |             |
| Uses                         | Medical/Healthcare Applications |                   |             |
| Agency Ratings               | USP Class VI                    |                   |             |
| RoHS Compliance              | RoHS Compliant                  |                   |             |
| Appearance                   | Black                           |                   |             |
| Forms                        | Pellets                         |                   |             |
| Processing Method            | Extrusion                       |                   |             |
|                              | Injection Molding               |                   |             |
| Physical                     | Nominal Value                   | Unit              | Test Method |
| Specific Gravity             | 0.900                           | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage            |                                 |                   | ASTM D955   |
| Flow                         | 3.0                             | %                 |             |
| Across Flow                  | 1.2                             | %                 |             |
| Hardness                     | Nominal Value                   | Unit              | Test Method |
| Durometer Hardness (Shore A) | 30                              |                   | ASTM D2240  |
| Elastomers                   | Nominal Value                   | Unit              | Test Method |
| Tensile Stress               |                                 |                   | ASTM D412   |
| 100% Strain                  | 0.700                           | MPa               |             |
| 300% Strain                  | 1.50                            | MPa               |             |
| Tensile Strength (Break)     | 3.00                            | MPa               | ASTM D412   |
| Tensile Elongation (Break)   | 550                             | %                 | ASTM D412   |
| Tear Strength                | 15.0                            | kN/m              | ASTM D624   |
| Compression Set              |                                 |                   | ASTM D395   |
| 23°C, 22 hr                  | 10                              | %                 |             |
| 70°C, 22 hr                  | 25                              | %                 |             |
| 100°C, 22 hr                 | 43                              | %                 |             |
| Additional Information       | Nominal Value                   |                   | Test Method |
| Ozone Resistance - Stressed  | No Cracks                       |                   | ASTM D518   |
| Injection                    | Nominal Value                   | Unit              |             |

|                       |              |    |
|-----------------------|--------------|----|
| Drying Temperature    | 90.0         | °C |
| Drying Time           | 2.0          | hr |
| Suggested Max Regrind | 20           | %  |
| Rear Temperature      | 155 to 175   | °C |
| Middle Temperature    | 165 to 185   | °C |
| Front Temperature     | 170 to 190   | °C |
| Nozzle Temperature    | 180 to 210   | °C |
| Mold Temperature      | 25.0 to 50.0 | °C |

| Extrusion             | Nominal Value | Unit |
|-----------------------|---------------|------|
| Drying Temperature    | 90.0          | °C   |
| Drying Time           | 2.0           | hr   |
| Cylinder Zone 1 Temp. | 155 to 165    | °C   |
| Cylinder Zone 2 Temp. | 160 to 180    | °C   |
| Cylinder Zone 3 Temp. | 165 to 185    | °C   |
| Cylinder Zone 4 Temp. | 170 to 190    | °C   |
| Cylinder Zone 5 Temp. | 180 to 210    | °C   |
| Die Temperature       | 185 to 215    | °C   |

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