

# Elastron® V V601.A75.B

Thermoplastic Vulcanizate

Elastron USA, Inc.

## Message:

A soft, black halogen free flame retardant (HFFR) thermoplastic vulcanizate, TPV (EPDM/PP) with superior UV - Ozone resistance.

Bondable to: PP, EVA, PE

| General Information          |                    |       |             |
|------------------------------|--------------------|-------|-------------|
| UL YellowCard                | E336670-100821793  |       |             |
| Additive                     | Flame Retardant    |       |             |
| Features                     | Bondability        |       |             |
|                              | Flame Retardant    |       |             |
|                              | Good UV Resistance |       |             |
|                              | Halogen Free       |       |             |
|                              | Ozone Resistant    |       |             |
|                              | Soft               |       |             |
| RoHS Compliance              | RoHS Compliant     |       |             |
| Appearance                   | Black              |       |             |
| Forms                        | Pellets            |       |             |
| Processing Method            | Extrusion          |       |             |
|                              | Injection Molding  |       |             |
| Physical                     | Nominal Value      | Unit  | Test Method |
| Specific Gravity             | 1.12               | g/cm³ | ASTM D792   |
| Hardness                     | Nominal Value      | Unit  | Test Method |
| Durometer Hardness (Shore A) | 75                 |       | ASTM D2240  |
| Elastomers                   | Nominal Value      | Unit  | Test Method |
| Tensile Stress               |                    |       | ASTM D412   |
| 100% Strain                  | 2.90               | MPa   |             |
| 300% Strain                  | 4.00               | MPa   |             |
| Tensile Strength (Break)     | 5.50               | MPa   | ASTM D412   |
| Tensile Elongation (Break)   | 500                | %     | ASTM D412   |
| Tear Strength                | 34.0               | kN/m  | ASTM D624   |
| Compression Set              |                    |       | ASTM D395   |
| 23°C, 22 hr                  | 22                 | %     |             |
| 70°C, 22 hr                  | 47                 | %     |             |
| 100°C, 22 hr                 | 66                 | %     |             |
| Flammability                 | Nominal Value      |       | Test Method |
| Flame Rating                 | V-0                |       | UL 94       |

| 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     | 175 to 195    | °C   |
| Nozzle Temperature    | 195 to 225    | °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. | 160 to 180    | °C   |
| Cylinder Zone 2 Temp. | 165 to 185    | °C   |
| Cylinder Zone 3 Temp. | 170 to 190    | °C   |
| Cylinder Zone 4 Temp. | 185 to 205    | °C   |
| Cylinder Zone 5 Temp. | 190 to 220    | °C   |
| Die Temperature       | 195 to 225    | °C   |

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