

# Elastron® G G601.A85.N

Styrene Ethylene Butylene Styrene Block Copolymer

Elastron USA, Inc.

Message:

A soft, colorable halogen free flame retardant (HFFR) SEBS based thermoplastic elastomer (TPE) compound with superior UV resistance.  
Bondable to: PP, EVA, PE

| General Information |                    |
|---------------------|--------------------|
| UL YellowCard       | E336670-100940833  |
| Additive            | Flame Retardant    |
| Features            | Block Copolymer    |
|                     | Bondability        |
|                     | Flame Retardant    |
|                     | Good Colorability  |
|                     | Good UV Resistance |
|                     | Halogen Free       |
|                     | Soft               |
| RoHS Compliance     | RoHS Compliant     |
| Appearance          | Natural Color      |
| Forms               | Pellets            |
| Processing Method   | Extrusion          |
|                     | Injection Molding  |

| Physical                     | Nominal Value | Unit              | Test Method |
|------------------------------|---------------|-------------------|-------------|
| Specific Gravity             | 1.14          | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                     | Nominal Value | Unit              | Test Method |
| Durometer Hardness (Shore A) | 85            |                   | ASTM D2240  |
| Elastomers                   | Nominal Value | Unit              | Test Method |
| Tensile Stress               |               |                   | ASTM D412   |
| 100% Strain                  | 3.70          | MPa               |             |
| 300% Strain                  | 4.80          | MPa               |             |
| Tensile Strength (Break)     | 7.00          | MPa               | ASTM D412   |
| Tensile Elongation (Break)   | 500           | %                 | ASTM D412   |
| Tear Strength                | 40.0          | kN/m              | ASTM D624   |
| Compression Set              |               |                   | ASTM D395   |
| 23°C, 22 hr                  | 19            | %                 |             |
| 70°C, 22 hr                  | 55            | %                 |             |
| 100°C, 22 hr                 | 81            | %                 |             |
| 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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