



# Viprene™ G45A-32U-BLK

## Alliance Polymers & Services - Thermoplastic Vulcanizate

### General Information

#### Product Description

Viprene™ G45A-32U-BLK is a UV and Heat Stabilized TPV (thermoplastic vulcanizate elastomer). This material can be easily processed by extrusion or injection molding. It exhibits easy flowing characteristics.

#### General

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Additive          | • Heat Stabilizer | • UV Stabilizer     |                |
| Features          | • Good Flow       | • Heat Stabilized   | • UV Resistant |
| Appearance        | • Black           |                     |                |
| Forms             | • Pellets         |                     |                |
| Processing Method | • Extrusion       | • Injection Molding |                |

### Properties <sup>1</sup>

| Physical                       | Nominal Value | Unit              | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Density                        | 0.970         | g/cm <sup>3</sup> | ISO 2781    |
| Elastomers                     | Nominal Value | Unit              | Test Method |
| Tensile Stress (100% Strain)   | 189           | psi               | ISO 37      |
| Tensile Stress (300% Strain)   | 363           | psi               | ISO 37      |
| Tensile Stress (Break)         | 711           | psi               | ISO 37      |
| Tensile Elongation (Break)     | 550           | %                 | ISO 37      |
| Tear Strength                  | 148           | lbf/in            | ISO 34-1    |
| Compression Set (158°F, 22 hr) | 35            | %                 | ASTM D395B  |
| Hardness                       | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A)       | 45            |                   | ISO 868     |
| Thermal                        | Nominal Value | Unit              | Test Method |
| Brittleness Temperature        | -76.0         | °F                | ASTM D746   |
| Flammability                   | Nominal Value | Unit              | Test Method |
| Flame Rating                   |               |                   | UL 94       |
| 0.04 in                        |               | HB                |             |
| 0.06 in                        |               | HB                |             |
| 0.12 in                        |               | HB                |             |