

# Trexprene® A67BW

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

## Message:

Product Description: TREXPENE ® A67BW is a heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV) and is primarily intended for Exterior applications. This Black material can be processed using Extrusion, Injection, or Blow Molding equipment.

| General Information |                    |
|---------------------|--------------------|
| Additive            | Heat Stabilizer    |
|                     | UV Stabilizer      |
| Features            | Good UV Resistance |
|                     | Heat Stabilized    |
| Appearance          | Black              |
| Forms               | Pellets            |
| Processing Method   | Blow Molding       |
|                     | Extrusion          |
|                     | Injection Molding  |

| Physical                                                  | Nominal Value | Unit              | Test Method |
|-----------------------------------------------------------|---------------|-------------------|-------------|
| Density                                                   | 0.930 to 1.01 | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                                                  | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A, 15 sec)                          | 62 to 70      |                   | ISO 868     |
| Elastomers                                                | Nominal Value | Unit              | Test Method |
| Tensile Stress - Across Flow <sup>1</sup> (100% Strain)   | 2.50          | MPa               | ISO 37      |
| Tensile Stress - Across Flow <sup>2</sup> (Yield)         | 7.10          | MPa               | ISO 37      |
| Tensile Elongation - Across Flow <sup>3</sup> (Break)     | 630           | %                 | ISO 37      |
| Tear Strength - Across Flow <sup>4</sup>                  | 34            | kN/m              | ISO 34-1    |
| Compression Set                                           |               |                   |             |
| 125°C, 70 hr                                              | 44            | %                 | ASTM D395B  |
| 125°C, 70 hr <sup>5</sup>                                 | 44            | %                 | ISO 815     |
| Aging                                                     | Nominal Value | Unit              | Test Method |
| Change in Tensile Strength in Air (135°C, 1000 hr)        | -17           | %                 | ISO 188     |
| Change in Tensile Strain at Break in Air (135°C, 1000 hr) | -13           | %                 | ISO 188     |
| Thermal                                                   | Nominal Value | Unit              | Test Method |
| Brittleness Temperature                                   |               |                   |             |
| --                                                        | -56.0         | °C                | ASTM D746   |
| Type B                                                    | -56.0         | °C                | ISO 812     |

| Additional Information                       | Nominal Value | Test Method |
|----------------------------------------------|---------------|-------------|
| Accelerated Weathering Duration <sup>6</sup> | Delta E < 3   | SAE J2527   |
| Ozone Resistance (40°C) <sup>7</sup>         | 0 Rating      | ISO 1431-1  |
| Weatherability <sup>8</sup>                  |               | SAE J1976   |
| Arizona                                      | Delta E < 3   |             |
| Florida                                      | Delta E < 3   |             |

#### NOTE

- |    |                                             |
|----|---------------------------------------------|
| 1. | Type 1, 500 mm/min                          |
| 2. | Type 1, 500 mm/min                          |
| 3. | Type 1, 500 mm/min                          |
| 4. | Method Ba, Angle (Unnicked), 500 mm/min     |
| 5. | Type A                                      |
| 6. | Extended UV Filters, 2500 kJ/m <sup>2</sup> |
| 7. | 100 pphm, Method A                          |
| 8. | 2 years exposure, Procedure A               |

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