

# Trexprene® A88CI

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

## Message:

Product Description: TREXPENE ® A88CI is a pre-colored, heat and UV stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This compound is primarily intended for interior automotive applications and can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

| General Information              |                           |                   |             |
|----------------------------------|---------------------------|-------------------|-------------|
| Additive                         | Heat Stabilizer           |                   |             |
|                                  | UV Stabilizer             |                   |             |
| Features                         | Good UV Resistance        |                   |             |
|                                  | Heat Stabilized           |                   |             |
| Uses                             | Automotive Interior Parts |                   |             |
| Appearance                       | Unspecified Color         |                   |             |
| Forms                            | Pellets                   |                   |             |
| Processing Method                | Blow Molding              |                   |             |
|                                  | Extrusion                 |                   |             |
|                                  | Injection Molding         |                   |             |
| Physical                         | Nominal Value             | Unit              | Test Method |
| Density                          | 0.920 to 0.980            | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                         | Nominal Value             | Unit              | Test Method |
| Shore Hardness (Shore A, 15 sec) | 83 to 91                  |                   | ISO 868     |
| Elastomers                       | Nominal Value             | Unit              | Test Method |
| Tensile Stress <sup>1</sup>      |                           |                   | ISO 37      |
| Across Flow : 100% Strain        | 5.00                      | MPa               |             |
| Flow : 100% Strain               | 6.40                      | MPa               |             |
| Tensile Stress <sup>2</sup>      |                           |                   | ISO 37      |
| Across Flow : Break              | 11.4                      | MPa               |             |
| Flow : Break                     | 9.80                      | MPa               |             |
| Tensile Elongation <sup>3</sup>  |                           |                   | ISO 37      |
| Across Flow : Break              | 780                       | %                 |             |
| Flow : Break                     | 550                       | %                 |             |
| Tear Strength <sup>4</sup>       |                           |                   | ISO 34-1    |
| Across Flow                      | 43                        | kN/m              |             |
| Flow                             | 48                        | kN/m              |             |
| Compression Set                  |                           |                   |             |
| 70°C, 24 hr                      | 49                        | %                 | ASTM D395B  |

|                                                           |                                                            |             |                    |
|-----------------------------------------------------------|------------------------------------------------------------|-------------|--------------------|
| 70°C, 24 hr <sup>5</sup>                                  | 49                                                         | %           | ISO 815            |
| <b>Aging</b>                                              | <b>Nominal Value</b>                                       | <b>Unit</b> | <b>Test Method</b> |
| Change in Tensile Strength in Air (110°C, 1000 hr)        | -3.0                                                       | %           | ISO 188            |
| Change in Tensile Strain at Break in Air (110°C, 1000 hr) | -15                                                        | %           | ISO 188            |
| <b>Thermal</b>                                            | <b>Nominal Value</b>                                       | <b>Unit</b> | <b>Test Method</b> |
| Brittleness Temperature                                   |                                                            |             |                    |
| --                                                        | -51.0                                                      | °C          | ASTM D746          |
| Type B                                                    | -51.0                                                      | °C          | ISO 812            |
| <b>Flammability</b>                                       | <b>Nominal Value</b>                                       | <b>Unit</b> | <b>Test Method</b> |
| Burning Rate                                              | 18                                                         | mm/min      | ISO 3795           |
| Fogging - Dry Fog                                         | 88                                                         | %           | SAE J1756          |
| Color Fastness - to Light <sup>6</sup>                    | Delta E < 3                                                |             |                    |
| Odor Rating <sup>7</sup>                                  | > 7.00                                                     |             |                    |
| Ozone Resistance (40°C) <sup>8</sup>                      | 0 Rating                                                   |             | ISO 1431-1         |
| Weatherability                                            |                                                            |             |                    |
| Arizona <sup>9</sup>                                      | Delta E < 3                                                |             |                    |
| Florida <sup>10</sup>                                     | Delta E < 3                                                |             | SAE J1976          |
| <b>NOTE</b>                                               |                                                            |             |                    |
| 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.                                                        | SAE J2412, ISO 105-B06, Cond. 5, 1,240.8 kJ/m <sup>2</sup> |             |                    |
| 7.                                                        | GMW3205 Code B                                             |             |                    |
| 8.                                                        | 100 pphm, Method A                                         |             |                    |
| 9.                                                        | 105,000 TNR Langley's exposure per GMW3417 L1, F2, G1, T5  |             |                    |
| 10.                                                       | 2 years exposure, Procedure A                              |             |                    |

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