

# Sevrene® 3500-70A

Thermoplastic Elastomer

Vi-Chem Corporation

## Message:

Sevrene® 3500-70A is a Thermoplastic Elastomer (TPE) material. It is available in North America for extrusion or injection molding.

Typical application of Sevrene® 3500-70A: Automotive

| General Information                                        |                             |                   |             |
|------------------------------------------------------------|-----------------------------|-------------------|-------------|
| Forms                                                      | Pellets                     |                   |             |
| Processing Method                                          | Extrusion                   |                   |             |
|                                                            | Injection Molding           |                   |             |
| Physical                                                   | Nominal Value               | Unit              | Test Method |
| Specific Gravity                                           | 0.940                       | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                                   | Nominal Value               | Unit              | Test Method |
| Durometer Hardness (Shore A, 15 sec)                       | 66                          |                   | ASTM D2240  |
| Elastomers                                                 | Nominal Value               | Unit              | Test Method |
| Tensile Stress - Flow <sup>1</sup> (100% Strain)           | 2.40                        | MPa               | ISO 37      |
| Tensile Stress - Flow <sup>2</sup> (Yield)                 | 8.10                        | MPa               | ISO 37      |
| Tensile Elongation - Flow <sup>3</sup> (Break)             | 1300                        | %                 | ISO 37      |
| Tear Strength - Flow <sup>4</sup>                          | 31.8                        | kN/m              | ASTM D624   |
| Compression Set                                            |                             |                   | ASTM D395   |
| 23°C, 168 hr                                               | 25                          | %                 |             |
| 100°C, 168 hr                                              | 58                          | %                 |             |
| Aging                                                      | Nominal Value               | Unit              | Test Method |
| Change in Tensile Strength <sup>5</sup> (80°C, 1008 hr)    | 1.0                         | %                 | ASTM D412   |
| Change in Ultimate Elongation <sup>6</sup> (80°C, 1008 hr) | -20                         | %                 | ASTM D412   |
| Thermal                                                    | Nominal Value               |                   |             |
| Cold Flexibility (-30°C) <sup>7</sup>                      | Pass                        |                   |             |
| Fogging <sup>8</sup>                                       |                             |                   | SAE J1756   |
| 21°C                                                       | 94.5                        |                   |             |
| 100°C                                                      | 94.5                        |                   |             |
| Arizona Weathering <sup>9</sup>                            | 1.15Surface Defects = Pass  |                   | SAE J1976   |
| Florida Weathering <sup>10</sup>                           | 0.970Surface Defects = Pass |                   | SAE J1976   |
| Weather Resistance                                         |                             |                   | SAE J1976   |
| -- <sup>11</sup>                                           | 1.87Surface Defects = Pass  |                   |             |
| -- <sup>12</sup>                                           | 1.56Surface Defects = Pass  |                   |             |
| Flammability                                               | Nominal Value               | Unit              | Test Method |
| Burning Rate                                               | 46                          | mm/min            | FMVSS 302   |

| NOTE |                                                         |
|------|---------------------------------------------------------|
| 1.   | 500 mm/min                                              |
| 2.   | 500 mm/min                                              |
| 3.   | 500 mm/min                                              |
| 4.   | Die B, 500 mm/min                                       |
| 5.   | After heat aging                                        |
| 6.   | After heat aging                                        |
| 7.   | CLP 463DD-07-01                                         |
| 8.   | 3 hrs                                                   |
| 9.   | 2 years, Delta E                                        |
| 10.  | 2 years, Delta E                                        |
| 11.  | Interior Xenon, 1240 kj/m <sup>2</sup> , Delta E        |
| 12.  | Exterior Xenon Arc, 2500 kj/m <sup>2</sup> ,<br>Delta E |

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