

## Aearo E-A-R Specialty Composites VersaDamp™ V-2575 TPE

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

### Material Notes:

VersaDamp TPEs are olefinic dynamic vulcanizates. The VersaDamp 2000 series materials provide predictable damping performance throughout a broad range of temperatures. They can be injection molded into a wide variety of standard or custom isolators, including grommets, equipment mounts, bumpers, and gaskets. They feature high internal damping properties for low amplification at resonance to protect equipment during frequency cycling and random shocks, effective shock protection for sensitive mechanisms within minimum sway parameters, and quick return to equilibrium after vibrations or shocks. Information provided by Aearo E-A-R Specialty Composites.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aearo-E-A-R-Specialty-Composites-VersaDamp-V-2575-TPE.php](http://www.lookpolymers.com/polymer_Aearo-E-A-R-Specialty-Composites-VersaDamp-V-2575-TPE.php)

| Mechanical Properties      | Metric      | English   | Comments                                      |
|----------------------------|-------------|-----------|---|
| Hardness, Shore A          | 57          | 57        | 5 sec.; ASTM D2240                            |
| Tensile Strength at Break  | 4.43 MPa    | 643 psi   | ASTM D412                                     |
| Elongation at Break        | 328 %       | 328 %     | ASTM D412                                     |
| Tensile Modulus            | 0.00200 GPa | 0.290 ksi | ASTM D412                                     |
| Compressive Yield Strength | 0.140 MPa   | 20.3 psi  | Compressive Load Deflection at 5%; ASTM D575  |
|                            | 0.350 MPa   | 50.8 psi  | Compressive Load Deflection at 10%; ASTM D575 |
|                            | 0.540 MPa   | 78.3 psi  | Compressive Load Deflection at 15%; ASTM D575 |
|                            | 0.770 MPa   | 112 psi   | Compressive Load Deflection at 20%; ASTM D575 |
|                            | 1.09 MPa    | 158 psi   | Compressive Load Deflection at 25%; ASTM D575 |
| Compressive Modulus        | 0.00390 GPa | 0.566 ksi | at 15% Compression; ASTM D575                 |
|                            |             |           |   |
| Resilience                 | 17          | 17        | % Bashore Rebound; 22°C; ASTM D2632           |
|                            | 44          | 44        | % Bashore Rebound; 70°C; ASTM D2632           |
| Tear Strength              | 22.2 kN/m   | 127 pli   | ASTM D624                                     |
| Compression Set            | 5.1 %       | 5.1 %     | 24 hour at 20°C; ASTM D395B                   |
|                            | 14.5 %      | 14.5 %    | 1/2 hour at 20°C; ASTM D395B                  |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|                    |        |         |          |

| Maximum Service Temperature, Air Thermal Properties | 100 °C Metric | 212 °F English | Continuous Comments     |
|---|---------------|----------------|-------------------------|
|   | 125 °C        | 257 °F         | Intermittent            |
| Brittleness Temperature                             | -46.0 °C      | -50.8 °F       | ASTM D2137              |
| Glass Transition Temp, Tg                           | -61.0 °C      | -77.8 °F       | DMA @ 10 Hz; ASTM D2240 |
| Flammability, UL94                                  | HB            | HB             | Meets HBF               |

| Descriptive Properties         | Value       | Comments                         |
|--------------------------------|-------------|----------------------------------|
| Bacterial Resistance           | Meets       | ASTM G21                         |
| Fungal Resistance              | Meets       | ASTM G22                         |
| MVSS 302 Flammability          | Passes      |                                  |
| Ozone Resistance               | No Cracking | ASTM D1149-91                    |
| Relative Peak Transmissibility | 7.9 dB      | G-411 Grommet; 1.2lb load @ 20°C |

## Contact Songhan Plastic Technology Co.,Ltd.

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