

# Technical Data Sheet: ZSH800

## High Performance Flame Retardant Silicone Foam



ZSH800 is a high performance flame retardant silicone foam that has the characteristics of good corrosion resistance, excellent toughness, aging resistance, flame retardant properties, shock absorption and filling that mainly used for cushioning pads



### Characteristics

- Excellent shock absorbing ability
- Flexible and long-lasting rebound
- Good aging resistance and chemical stability
- Flame Retardant

### Applications

- Suitable to be used as new energy vehicles and battery cell buffer frame
- As flame retardant electronic cushioning pad and other components that required for shock absorption

### Properties

| Properties                                  | ZSH800           | Standard   |
|---------------------------------------------|------------------|------------|
| Thickness (mm)                              | 0.8 ~ 12.7       | -          |
| Density (kg/m <sup>3</sup> )                | 800 ~ 950        | ASTM D792  |
| Hardness, Shore A                           | 37               | ASTM D2240 |
| Tensile Strength (kPa)                      | 1500             | ASTM D412  |
| Elongation at Break (%)                     | 103              | ASTM D412  |
| Tear Strength (N/mm)                        | 4.56             | ASTM D624  |
| Compression Force at 25% Deflection (kPa)   | 878              | ASTM D1056 |
| Compression Set at 100°C, 22 hours, 25% (%) | < 5              | ASTM D395  |
| Dielectric Strength (kV/mm)                 | > 3              | ASTM D149  |
| Volume Resistivity (Ω.cm)                   | 10 <sup>14</sup> | ASTM D257  |
| Water Absorption (%)                        | < 5              | ASTM D1056 |
| Recommended Temperature (°C)                | -55 ~ 200        | SAE J-2236 |