

## AlphaGary Evoprene™ GC 5683 SEBS Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE

### Material Notes:

Evoprene™ GC compounds are based on styrene ethylene- butylene styrene block copolymers. Evoprene™ GC series was created to provide cost effective solutions for processors and end users alike. Can be used in food contact applications with the appropriate stabilizer package

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AlphaGary-Evoprene-GC-5683-SEBS-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_AlphaGary-Evoprene-GC-5683-SEBS-Thermoplastic-Elastomer.php)

| Physical Properties   | Metric                     | English                    | Comments   |
|-----------------------|----------------------------|----------------------------|--|
| Specific Gravity      | 1.16 g/cc                  | 1.16 g/cc                  | ISO 2782   |
| Viscosity Measurement | 6.0<br>@Temperature 180 °C | 6.0<br>@Temperature 356 °F | Kg/cm <sup>2</sup> ; Macklow-Smith extrusion rheometer |

| Mechanical Properties | Metric  | English  | Comments |
|-----------------------|---|--|----------|
| Hardness, Shore A     | 76  | 76   | ISO 868  |
| Tensile Strength      | 4.80 MPa  | 696 psi  | ISO 37   |
| Elongation at Break   | 440 %   | 440 %  | ISO 37   |
| 100% Modulus          | 0.00280 GPa                                     | 0.406 ksi                                      | ISO 37   |
| Tear Strength         | 25.0 kN/m                                       | 143 pli  | ISO 34-B |
| Compression Set       | 54 %<br>@Temperature 70.0 °C,<br>Time 79200 sec | 54 %<br>@Temperature 158 °F,<br>Time 22.0 hour | ISO 815  |

| Thermal Properties               | Metric           | English          | Comments |
|----------------------------------|------------------|------------------|----------|
| Minimum Service Temperature, Air | -60.0 - -50.0 °C | -76.0 - -58.0 °F |          |

| Descriptive Properties | Value           | Comments |
|------------------------|-----------------|----------|
| Bonds with             | Polypropylene   |          |
| Chemical Resistance    | Acetone         | Moderate |
|                        | Acids up to 80% | Good     |
|                        | Alcohol         | Good     |
|                        | Alkalis         | Good     |
|                        | Brake fluid     | Moderate |

| Descriptive Properties | Value           | Comments  |
|------------------------|-----------------|-----------|
|                        | Diesel          | Poor      |
|                        | Ethylene glycol | Excellent |
|                        | Gasoline        | Poor      |
|                        | Salt solution   | Good      |
|                        | Soda lye        | Good      |
|                        | Water, 23°C     | Excellent |
|                        | Water, 95°C     | Moderate  |
| Transparency           | Opaque          |           |

## Contact Songhan Plastic Technology Co.,Ltd.

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