

## S&E Specialty Polymers TufFlex™ GTPE-2272 TPE Compound

Category : Polymer , Thermoplastic , Elastomer , TPE

### Material Notes:

Application: A 105°C flexible, oil resistant, flame retardant TPE jacketing material designed for SJEO applications. Information provided by S&E Specialty Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SE-Specialty-Polymers-TufFlex-GTPE-2272-TPE-Compound.php](http://www.lookpolymers.com/polymer_SE-Specialty-Polymers-TufFlex-GTPE-2272-TPE-Compound.php)

| Physical Properties | Metric           | English          | Comments  |
|---------------------|------------------|------------------|-----------|
| Specific Gravity    | 1.24 - 1.30 g/cc | 1.24 - 1.30 g/cc | ASTM D792 |

| Mechanical Properties | Metric                                        | English                                    | Comments   |
|-----------------------|-----------------------------------------------|--------------------------------------------|------------|
| Hardness, Shore A     | 69.0 - 75.0                                   | 69.0 - 75.0                                | ASTM D2240 |
|                       | @Time 15.0 sec                                | @Time 0.00417 hour                         |            |
| Tensile Strength      | 12.4 MPa                                      | 1800 psi                                   | ASTM D412  |
|                       | 13.268 MPa                                    | 1924.4 psi                                 | Oil Aged   |
|                       | @Temperature 100 °C,<br>Time 346000 sec       | @Temperature 212 °F,<br>Time 96.0 hour     |            |
|                       | 14.384 MPa                                    | 2086.2 psi                                 | Oil Aged   |
|                       | @Temperature 75.0 °C,<br>Time 5.18e+6 sec     | @Temperature 167 °F,<br>Time 1440 hour     |            |
|                       | 14.756 MPa                                    | 2140.2 psi                                 | Aged       |
|                       | @Temperature 136 °C,<br>Time 605000 sec       | @Temperature 277 °F,<br>Time 168 hour      |            |
| Elongation at Break   | 300 %                                         | 300 %                                      | ASTM D412  |
|                       | 195 %                                         | 195 %                                      | Oil Aged   |
|                       | @Treatment Temp. 100 °C,<br>Time 346000 sec   | @Treatment Temp. 212 °F,<br>Time 96.0 hour |            |
|                       | 243 %                                         | 243 %                                      | Oil Aged   |
|                       | @Treatment Temp. 75.0 °C,<br>Time 5.18e+6 sec | @Treatment Temp. 167 °F,<br>Time 1440 hour |            |
|                       | 255 %                                         | 255 %                                      | Aged       |
|                       | @Treatment Temp. 136 °C,<br>Time 605000 sec   | @Treatment Temp. 277 °F,<br>Time 168 hour  |            |

| Thermal Properties      | Metric   | English  | Comments   |
|-------------------------|----------|----------|------------|
| Brittleness Temperature | -35.0 °C | -31.0 °F | ASTM D746  |
| Oxygen Index            | 28.0 %   | 28.0 %   | ASTM D2863 |

## Contact Songhan Plastic Technology Co.,Ltd.

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