

**ExxonMobil Santoprene® 8211-60 Thermoplastic Elastomer (discontinued \*\*)**

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

**Material Notes:**

A soft, colorable, non-hygroscopic, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of applications. This grade of Santoprene 8000 TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion or blow molding. It is polyolefin based and completely recyclable. Non-hygroscopic product, requires little to no drying before processing. Neutral, easy coloring formulation. Used in sealing applications. Information provided by Advanced Elastomer Systems

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Santoprene-8211-60-Thermoplastic-Elastomer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8211-60-Thermoplastic-Elastomer-nbspdiscontinued-.php)

| Physical Properties | Metric     | English    | Comments        |
|---------------------|------------|------------|-----------------|
| Specific Gravity    | 0.950 g/cc | 0.950 g/cc | 23°C; ASTM D792 |

| Mechanical Properties      | Metric   | English | Comments                |
|----------------------------|----------|---------|-------------------------|
| Hardness, Shore A          | 60       | 60      | .12 in; ASTM D2240      |
| Tensile Strength at Break  | 5.72 MPa | 830 psi | Across Flow; ASTM D412  |
| Tensile Strength, Ultimate | 2.21 MPa | 320 psi | Across Flow; ASTM D412  |
| Elongation at Break        | 470 %    | 470 %   | Across Flow; ASTM D412  |
| Compression Set            | 30 %     | 30 %    | 73°F, 70 hr; ASTM D395  |
|                            | 60 %     | 60 %    | 257°F, 70 hr; ASTM D395 |

| Thermal Properties      | Metric   | English  | Comments  |
|-------------------------|----------|----------|-----------|
| Brittleness Temperature | -62.8 °C | -81.0 °F | ASTM D746 |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Constant   | 2.3        | 2.3       | ASTM D150 |
| Dielectric Strength   | 33.1 kV/mm | 840 kV/in | ASTM D149 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Processing Temperature    | 175 - 230 °C | 347 - 446 °F |          |
| Rear Barrel Temperature   | 177 - 191 °C | 350 - 375 °F |          |
| Middle Barrel Temperature | 179 - 193 °C | 355 - 380 °F |          |

| Front Barrel Temperature<br>Processing Properties | 185 - 199 °C<br>Metric | 365 - 390 °F<br>English | Comments   |
|---------------------------------------------------|------------------------|-------------------------|------------|
| Nozzle Temperature                                | 185 - 210 °C           | 365 - 410 °F            |            |
| Die Temperature                                   | 177 - 216 °C           | 350 - 420 °F            | Extrusion  |
| Melt Temperature                                  | 143 - 216 °C           | 290 - 420 °F            | Processing |
|                                                   | 179 - 216 °C           | 355 - 420 °F            | Extrusion  |
| Mold Temperature                                  | 23.9 - 51.7 °C         | 75.0 - 125 °F           |            |
| Moisture Content                                  | 0.080 %                | 0.080 %                 |            |
| Back Pressure                                     | 0.345 - 0.689 MPa      | 50.0 - 100 psi          |            |
| Clamp Pressure                                    | 41.4 - 68.9 MPa        | 6000 - 10000 psi        |            |
| Vent Depth                                        | 0.00254 cm             | 0.00100 in              |            |
| Cushion                                           | 0.317 - 0.635 cm       | 0.125 - 0.250 in        |            |
| Screw Speed                                       | 100 - 200 rpm          | 100 - 200 rpm           |            |

| Descriptive Properties  | Value         | Comments |
|-------------------------|---------------|----------|
| Color                   | Natural Color |          |
| Form                    | Pellets       |          |
| Injection Rate          | Fast          |          |
| Maximum Regrind %       | 20            |          |
| Screw Compression Ratio | 2:1 - 2.5:1   |          |
| Screw L/D Ratio         | 16:1 - 20:1   |          |

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