

# SANTOPRENE® RC8001

A soft, colorable, specialty, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in non fatty food contact applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

## Key Features

- This product, in principle, can be used in food contact applications in the USA (FDA) (PNS only). Migration or use limitations may apply.
- Complies with NSF Standard/ANSI 51: Food Equipment Materials - Plastics, materials and components used in food equipment.
- Although not NSF certified, this product has a material supplier form on file with NSF to facilitate evaluation for use in applications requiring NSF certification.
- Recommended for applications requiring excellent flex fatigue resistance.
- Non-hygroscopic product; requires little to no drying before processing.
- Neutral, easy coloring formulation.

## Typical mechanical properties

|                           |         |                        |
|---------------------------|---------|------------------------|
| Stress at 100% elongation | 261 psi | ISO 527-1/-2 or ISO 37 |
| Stress at break           | 798 psi | ISO 527-1/-2 or ISO 37 |
| Elongation at break       | 400 %   | ISO 527-1/-2 or ISO 37 |
| Shore A hardness, 15s     | 56      | ISO 48-4 / ISO 868     |

## Other properties

|         |            |          |
|---------|------------|----------|
| Density | 474 lb/gal | ISO 1183 |
|---------|------------|----------|

## Processing Texts

|                  |                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processing Notes | Desiccant drying for 3 hours at 80°C (180°F) can be performed if desired. Santoprene® TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|