

# Sutper®TPV V4010003

## Product Description

This product is a type of thermoplastic elastomer (TPE), specifically a softer, and versatile Thermoplastic Vulcanizates (TPV) material. It offers excellent physical and mechanical properties, along with superior chemical resistance and elasticity, it is a polyolefin elastomer that can be fully recycled and reused during production.

## Specifications

|                |                                                             |
|----------------|-------------------------------------------------------------|
| Applications   | •Automotive Seals                                           |
| Environmental  | •RoHS compliant                                             |
| Appearance     | •Black                                                      |
| Form           | •Granules                                                   |
| Molding method | •Extrusion Molding                                          |
| Availability   | •Europe<br>•North America<br>•Asia<br>•Africa & Middle East |

| Physical Properties         | Typical Value | Unit              | Test Method |
|-----------------------------|---------------|-------------------|-------------|
| Density                     | 0.99          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Flow Index (230°C*5kg) | 4             | g/10min           | ASTM D1238  |

| Hardness           | Typical Value | Unit | Test Method |
|--------------------|---------------|------|-------------|
| Shore A,10sec,23°C | 91            | A    | ASTM D2240  |

| Mechanical Properties                        | Typical Value | Unit | Test Method |
|----------------------------------------------|---------------|------|-------------|
| 100% Tensile Strength - Vertical Flow (23°C) | 8             | Mpa  | ASTM D412   |
| Tensile Strength - Vertical Flow (23°C)      | 19            | Mpa  | ASTM D412   |
| Break Elongation-Vertical Flow23°C           | 550           | %    | ASTM D412   |
| Tear Strength -Vertical Flow 23°C Die C      | 70            | KN/m | ASTM D624   |

## Additional Information

- TPV is incompatible with materials such as PVC, so equipment must be cleaned.
- The above test data were obtained using fan gate injection molded specimens with dimensions of 110 mm × 80 mm × 2 mm. The tensile strength, elongation at break, and stress at a given elongation were tested perpendicular to the flow direction, while tear strength was tested along the flow direction.
- The compression rate for compression set is 25%.
- The properties listed are typical and should not be considered technical specifications or part of an agreement.
- The user should be aware that Sutper needs to confirm all final details before taking any action based on the information and recommendations in this document.

Site: <https://www.sutper.com>