

Sutper®TPV V1010004

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 | •General purpose extrusion, seals, hoses, etc. |
| Environmental | •RoHS compliant |
| Appearance | •Black |
| Form | •Granules |
| Molding method | •Extrusion Molding |
| Availability | •Europe •North America •Asia •Africa & Middle East |

| Physical Properties | Typical Value | Unit | Test Method |
|-----------------------------|---------------|-------------------|-------------|
| Density | 0.97 | g/cm ³ | ASTM D792 |
| Melt Flow Index (230°C*5kg) | 7 | g/10min | ASTM D1238 |

| Hardness | Typical Value | Unit | Test Method |
|--------------------|---------------|------|-------------|
| Shore A,10sec,23°C | 80 | A | ASTM D2240 |

| Mechanical Properties | Typical Value | Unit | Test Method |
|--|---------------|------|-------------|
| 100% Tensile Strength - Vertical Flow (23°C) | 4.8 | Mpa | ASTM D412 |
| Tensile Strength - Vertical Flow (23°C) | 14 | Mpa | ASTM D412 |
| Break Elongation-Vertical Flow23°C | 750 | % | ASTM D412 |
| Tear Strength -Vertical Flow 23°C Die C | 54 | 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>