

# Sutper®TPE E1020005

## Product Description

A soft, colorable SEBS-based thermoplastic elastomer (TPE) compound. The product has uniform particle size and is free of impurities, offering excellent physical properties and chemical resistance.

## Specifications

|                |                                                             |
|----------------|-------------------------------------------------------------|
| Applications   | •Injection molded Castor stock                              |
| Environmental  | •RoHS compliant                                             |
| Appearance     | •Natural color                                              |
| Form           | •Granules                                                   |
| Molding method | •Injection molding                                          |
| Availability   | •Europe<br>•North America<br>•Asia<br>•Africa & Middle East |

| Physical Properties         | Typical Value | Unit              | Test Method |
|-----------------------------|---------------|-------------------|-------------|
| Density                     | 0.97          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Flow Index (190°C*5kg) | 12            | g/10min           | ASTM D1238  |

| Hardness           | Typical Value | Unit | Test Method |
|--------------------|---------------|------|-------------|
| Shore D,15sec,23°C | 57            | D    | 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)      | 12            | Mpa  | ASTM D412   |
| Break Elongation-Vertical Flow23°C           | 500           | %    | ASTM D412   |
| Tear Strength -Vertical Flow 23°C Die C      | 90            | KN/m | ASTM D624   |

## Additional Information

- 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 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.