BARLOG Plastics
Mehr aus Polymer.

# Technical data
# KEBABLEND / EC FE 190304 TPE (Development product*)

TPE-S, Shore A79, electrically conductive

**Polymer:** TPE-S

**ISO designation:** TPS-SEBS-CD

**Productgroup:** Electrically conductive compounds, Functionalized compounds

**Brief description of the product family:**

KEBABLEND is a wide range of functional compounds, often tailor-made to customer requirements. Under the trade name KEBABLEND, we market magnetizable, thermally or electrically conductive compounds, high-density injection molding materials, compounds for radiation protection applications, detectable plastics and much more.

**Properties:**

antistatic, electrically conductive, flexible, good haptics, semi-crystalline, soft, PFAS-free

**Typical areas of application:**

Seals, Haptic components

**Industries:**

Household appliances, Industry, Mechanical Engineering

## Physical properties

| | |
|---|---|
| Density in kg/m³ \| ISO 1183-1 | 1080 |

## Mechanical properties

| | |
|---|---|
| Stress at break in MPa \| ISO 527-1 | 8.5 |
| Strain at break in % \| ISO 527-1 | 450 |
| Compression set at 23°C in %. \| ISO 815-1 | 35 |
| Compression set at 70°C in %. \| ISO 815-1 | 69 |
| Compression set at 100°C in % \| ISO 815-1 | 80 |
| Shore A hardness \| DIN ISO 7619-1 | 79 |
| Stress at 10% elongation in MPa \| DIN EN ISO 527-1 | 1.1 |
| Stress at 50% elongation in MPa \| DIN EN ISO 527-1 | 2.4 |
| Stress at 100% elongation in MPa \| DIN EN ISO 527-1 | 3.1 |
| Stress at 300% elongation in MPa \| DIN EN ISO 527-1 | 3.1 |
| Tear strength in kN/m \| DIN ISO 34-1 | 15.00 |

## Rheological properties

| | |
|---|---|
| Molding shrinkage in flow direction in % \| ISO 294-4 | 1.1 |

## Rheological properties

| | |
|---|---|
| Molding shrinkage transverse to the flow direction in % \| ISO 294-4 | 1.2 |

## Thermal properties

| | |
|---|---|
| Burning behavior at thickness 0.4 mm \| IEC 60695-11-10 | HB |

## Electrical properties

| | |
|---|---|
| Volume resistivity in Ohm*m \| IEC 60093 | 6e-2 |

**Processing instructions:**

**Pre-drying:**

Dryer type: dry air dryer
Temperature: 80°C
Drying time: 2-4 h

**Temperatures:**

Melt temperature: 230 – 270°C
Mold temperature: 20 – 60°C

**Dwell time on the machine:**

Aim for short dwell time, empty cylinder when production is interrupted, lower temperature, flush with fresh material when restarting.

Injection speed and injection pressure depend on the component. Too high speed and shear can worsen conductivity.

**Legal notices:**

The information in this data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during processing and application of our products, they do not exempt the processor from carrying out his own tests and trials. A legally binding assurance of certain properties or suitability for a specific application cannot be derived from our information.

* FE products are development products which are still in the trial phase. Technical data may still change in the course of product and process development. No final decision has yet been made on the commercialization of FE products. We reserve the right to discontinue the manufacture of FE products without giving further reasons.

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Am Weidenbach 8-10
51491 Overath

Telefon +49 (0)2206 90851-100
Telefax +49 (0)2206 90851-199

E-Mail: kontakt@barlog.de
Web: www.barlog.de