Technical data
KEBAFLEX / S FE 190902 black (development product*)

TPE-S, Shore A86, very good wear behavior, black

Polymer: TPE-S

ISO designation: TPS-SEBS

Productgroup: TPE

Brief description of the product family:

Under the trade name KEBAFLEX / S we market a range of thermoplastic elastomer compounds based on SEBS/PP. KEBAFLEX / S is available in various Shore hardnesses from below A10 to above D50 and is often used as a substitute for rubber due to its cost-effective processing by injection molding. It is soft and flexible, freely colorable, shows good elastic behavior up to 100°C and offers a pleasant feel. A wide range of modified compounds is available, e.g. adhesion-modified grades for 2K injection molding, printable grades, grades with optimized compression set, etc.

Properties:

flexible, good spring properties, good haptics, High wear resistance, semi-crystalline, weich, PFAS-free

Typical areas of application:

Seals, Bellows, Haptic components, Rollers, Toys

Industries:

Automotive, Household appliances, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	900

Mechanical properties

Stress at break in MPa | ISO 527-1	13
Strain at break in % | ISO 527-1	660
Compression set at 23°C in %. | ISO 815-1	32
Compression set at 70°C in %. | ISO 815-1	60
Compression set at 100°C in % | ISO 815-1	79
Shore A hardness | DIN ISO 7619-1	86
Stress at 10% elongation in MPa | DIN EN ISO 527-1	2.3
Stress at 50% elongation in MPa | DIN EN ISO 527-1	3.4
Stress at 100% elongation in MPa | DIN EN ISO 527-1	3.7
Stress at 300% elongation in MPa | DIN EN ISO 527-1	6.2

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	1.5

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

Processing instructions:

Pre-drying:

May be required to remove surface moisture:
Dryer type: Dry air dryer
Temperature: 60°C – 70°C
Drying time: 2 – 4 h
Residual moisture: < 0.02

Temperatures:

Melt temperature: 210 – 250°C
Mold temperature: 20 – 50 °C

General processing information:

Due to the pronounced structural viscosity of KEBAFLEX / S FE 190902, high injection speeds and short injection times should be aimed for. Very good venting of the cavity is a basic requirement for achieving a high injection speed and good surface quality.

The relatively high viscosity requires high injection speeds and medium injection pressure. To avoid high internal stresses and to improve 2K adhesion, the holding pressure should be kept as low as possible and the holding times of injection pressure and holding pressure should be as short as possible.

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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