Technical data
KEBAFLEX / SG 50 A.1 black

TPE-S, Shore A50, black

Polymer: TPE-S

ISO designation: TPS-SEBS-MD

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 haptics, semi-crystalline, PFAS-free

Typical areas of application:

Seals, Bellows, Haptic components, Toys

Industries:

Automotive, Household appliances, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	1210

Mechanical properties

Stress at break in MPa | ISO 527-1	4.8
Strain at break in % | ISO 527-1	680

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	2.4
Molding shrinkage transverse to the flow direction in % | ISO 294-4	0.7

Thermal properties

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

Processing instructions:

Pre-drying recommendation:

Dryer type: dry air dryer
Temperature: 80°C
Drying time: 3 – 4 h
Residual moisture: < 0.02

Temperature recommendation:

Melt temperature: 220 – 250°C
Mold temperature: 20 – 40 °C

General processing notes:

The material can be processed on standard extruders for thermoplastics. Standard 3-zone screws (length: min. 25 D, compression ratio: 2.5 – 4 : 1) should be used. The melt should
be sufficiently sheared. In most cases, simple die tools are sufficient.

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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