Technical data
KEBAFLEX / S FE 170403 (Development product*)

TPE-S, Shore A85, modified for good adhesion to various polyamides such as PA6, PA66, PA6.12, etc.

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 haptics, adhesion modified, semi-crystalline, weich, PFAS-free

Typical areas of application:

Sealing elements, Seals, Handles, Haptic components

Industries:

Automotive, Electrical and electronics industry, Household appliances, Industry, Mechanical Engineering, Furniture industry, Sports & Recreation

Physical properties

Density in kg/m³ | ISO 1183-1	1120

Mechanical properties

Stress at break in MPa | ISO 527-1	6.4
Strain at break in % | ISO 527-1	430
Shore A hardness | DIN ISO 7619-1	85
Stress at 10% elongation in MPa | DIN EN ISO 527-1	2.5
Stress at 50% elongation in MPa | DIN EN ISO 527-1	3.8
Stress at 100% elongation in MPa | DIN EN ISO 527-1	4.5
Stress at 300% elongation in MPa | DIN EN ISO 527-1	5.9
Tear strength in kN/m | DIN ISO 34-1	16

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	1.2
Molding shrinkage transverse to the flow direction in % | ISO 294-4	1.0

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

Temperatures:

Melt temperature: 220 – 250°C
Mold temperature: 20 – 50°C

General processing notes:

The relatively high viscosity requires high injection speeds and medium injection pressure. To avoid high internal stresses, and to improve the 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.

A compound temperature at the upper limit also improves adhesion.

Very good venting of the cavity is a basic prerequisite for achieving a high injection speed and, consequently, good adhesion and good surface quality.

The selected barrel capacity should not exceed 5 – 6 shots to avoid thermal material damage.

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