BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX – H / SPA3 60F A.01 natural

TPE-S, Shore A60, modified for adhesion to PA and PPA, food compliant according to EU 10/2011 and FDA

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 over
D50 and is often used as a substitute for rubber due to its cost-effective processing by injection
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., adhesive adhesion-modified grades for 2-component injection molding, printable grades, grades with optimized compression set, grades with optimized
optimized compression set, etc.

Properties:

flexible, good haptics, adhesion modified, semi-crystalline, weich, approved for food contact (EU and FDA), PFAS-free

Typical areas of application:

Sealing elements, Seals, Handles, Haptic components

Industries:

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

Physical properties

Density in kg/m³ | ISO 1183-1	1080

Mechanical properties

Stress at break in MPa | ISO 527-1	4.9
Strain at break in % | ISO 527-1	465
Compression set at 70°C in %. | ISO 815-1	49
Shore A hardness | DIN ISO 7619-1	59
Stress at 10% elongation in MPa | DIN EN ISO 527-1	0.6
Stress at 50% elongation in MPa | DIN EN ISO 527-1	1.3
Stress at 100% elongation in MPa | DIN EN ISO 527-1	2.0
Stress at 300% elongation in MPa | DIN EN ISO 527-1	4.0

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	1.7
Molding shrinkage transverse to the flow direction in % | ISO 294-4	0.9

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: 200 – 250°C
Mold temperature: 20 – 50 °C

General processing notes:

The relatively high viscosity requires high injection speeds and medium injection pressure. For high internal stresses and to improve 2K adhesion, the holding pressure should be kept as low as possible and the low as possible, and the holding times of injection pressure and holding pressure should be as short as possible. 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, a high adhesion.
The selected barrel capacity should be selected to avoid the risk of overpressure.
To avoid thermal damage to the material, the selected cylinder capacity should not exceed 5 – 6 shots. to avoid thermal damage.

Legal notices:

The information in this data sheet is based on our current knowledge and experience. They the processor from carrying out his own tests and trials due to the wide range of possible influences during the of our products from carrying out their own tests and trials. A legally binding assurance of properties or suitability for a specific application can be derived from our information. cannot be derived from our information.

* FE products are development products which are still in the trial phase. phase. Technical data may still change in the course of product and process development. change in the course of product and process development. No final decision has yet been taken 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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