BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / SG 60 HT A.01 black

TPE-S, Shore A60, black, improved compression set at high temperatures, good weather resistance, suitable for overmolding of metal components

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, good recovery behavior, High weather resistance, semi-crystalline, soft, PFAS-free

Typical areas of application:

Sealing elements, Seals, Spring elements, Haptic components, gaskets

Industries:

Automotive, Electrical and electronics industry, Household appliances, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	1160

Mechanical properties

Stress at break in MPa | ISO 527-1	5.7
Strain at break in % | ISO 527-1	315
Compression set at 23°C in %. | ISO 815-1	19
Compression set at 70°C in %. | ISO 815-1	30
Compression set at 100°C in % | ISO 815-1	43
Shore A hardness | DIN ISO 7619-1	62
Stress at 10% elongation in MPa | DIN EN ISO 527-1	0.8
Stress at 50% elongation in MPa | DIN EN ISO 527-1	1.8
Stress at 100% elongation in MPa | DIN EN ISO 527-1	2.8

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	1.9
Molding shrinkage transverse to the flow direction in % | ISO 294-4	1.0

Processing instructions:

Pre-drying recommendation:

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

Temperature recommendation:

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

General processing information:

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.

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.

Created at: 22.05.2026

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